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<210> 2673

<211> 669

<212> DNA

<213> Homo sapiens

<400> 2673

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 ctgtttgata gagcatcatg agaaatcaca aaatacaatg ctatttttct gatgtgtgct 240
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<210> 2674

<211> 697

<212> DNA

<213> Homo sapiens

<400> 2674

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<210> 2675

<211> 627

<212> DNA

<213> Homo sapiens

<400> 2675

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cctcccactg aagaaacaaa tagataccag gaagaagcta agtaaagcag tggagaagcg  240
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<210> 2676

<211> 799

<212> DNA

<213> Homo sapiens

<400> 2676

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 cggggcgctca cggcgacgtt cgggcgacct gccgagtggc caggctacct cagtcacctg 180
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 aaaaatgaag aactggaaca ctctaccag aatcaanaag ttgccc aan cccaaaatcc 720
 ctgggggttg gtnattttcc tgttcccccc cggttnatgg aattcctggg caaggtccaa 780
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<210> 2677

<211> 489

<212> DNA

<213> Homo sapiens

<400> 2677

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ctcggtactg accgagggtt cccagagctg tctcaccatt gcaaaaacgt tatagcaaca  180
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attcacatgc tcaaaggcat cagcatatac ccagagaccc tcagcaacaa gaagaaaatc  420
atcnaagtgc ggagagacaa anatggtcct gggagggaan gtggacntan gaacctgttg  480
gtggacgca                                     489
    
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<210> 2678

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2678

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agtgtgcttg ctcacaaacc tctttatgcc aattgcactg gttatcagaa ttatgtaatt  180
taatgaaata gtaccaaata tttcataaac taattaaata tgactacata aaggctcactg  240
cttctttgaa agttcactat tttggaaaag actcaaaatt agtcactaca gaagcatttc  300
tgtcaatgta aatgtgttat gataactata aaaggcgagg gggaatatta taaaatctaa  360
gaggattcta ctcttcataa gcactctcag ctccgctgac ttcaaagaaa ctagactgga  420
aatcanacct tgttattgga gtgagttgta aaagaaagtc tacatggaat tccaatgggt  480
    
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agatccttat tcagagaact atttgtgcct catcacaggt tagaccggca tgttttgcca 540
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 gcctggaatt atgttcagat gaanaaagga tttgggccgt tattaaaact naacanccac 720
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<210> 2679

<211> 858

<212> DNA

<213> Homo sapiens

<400> 2679

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 ccaggccagg ggtccagagc taaattctgc ctgcaggagc ggttattgtg gcatccgttt 420
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 caaggtttca aagcnattct ccttgccctcc agcctcccc gaattacctg gggaatttnc 780
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<210> 2680

<211> 548

<212> DNA

<213> Homo sapiens

<400> 2680

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atggcttcca aggctgatgt attagatgtt gtagtggctt caactgttca gaaagacatg  180
gccattatga ttgaggatga gaaagcttta agagaaactg tccgtaaatt gggagtgatt  240
gattcggaaa gaatggattt tgagctgttg ccagatgatg aacgtcagtg tgttaaagtc  300
aaaactacat gcttcatgtc tgccatctcc tgttcttgta aacctggcct tcttgtttgc  360
ctgcatcatg taaaanaatt gtgttccctgt cctccttata aatataaatt gcggtatang  420
tacacnctgg atgatctcta ccctatgatg aatgcattga agcttccaac canaatctta  480
caaccaaagtg ggccttgaat gtgaatgaag ctttggaggc aaacatcnac canaanaaaa  540
ccttgtcn                                     548
    
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<210> 2681

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2681

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cacggctact cggacctga cagcaggagg ccgggcacgg gcggcgccgc ctcgcgcagg  180
ggccagcctc ccgcgggcgc ccgggattcc ggccgggacg tgccgctcac tcagtaccag  240
cgggacttcg gcttgtggac cagccccgcc gggcccaagg atccgccgcc ggggcgcgga  300
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acgtcgtaca gacaggaatt ccaggcttgg actggaatga aaccctccag atccacnaag 480
acggaanccn cccgaatcat cacaaccac acttccggat tggacaaca 529

<210> 2682

<211> 505

<212> DNA

<213> Homo sapiens

<400> 2682

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caggaagatg ggatttaca agaaatagga aatgtttatc attgaccata caaagctggc 120
ttatcttact tgtagaagag tgtttggcag ctgaaaccca agggaaagaa aggaattgcg 180
tcattatagg caattcaggc taaatattat actacgtact ccatataccc tcttttttgt 240
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aatcatggc tcaactgcagc ctgcacctcc tgggcacaag tgatcctccc atctctgcct 360
tgaatagctg ggactccagg tgcacgccac aatgcctaata ttcctagttn tttgtnaaca 420
cagggctctg ctgtgtagcc caggtctggt tcaacctcct ggctcaagt gatcctcttg 480
cctcagctc ccaaataatcc tctac 505

<210> 2683

<211> 571

<212> DNA

<213> Homo sapiens

<400> 2683

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gccagctgac ggagatggtg cagaagatgg aggagacact naatgttcag cttacaaaag 240

aaatgacact tgccagcaac cggagcctgg cagaaagaaa ccttttgtac cagccccagc 300
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 cctatcagat aaagaatacc aaattagaca gacagtctag cagtgcctcc ttggagaccc 420
 tgttatcact tcttcacgca caaggggcca agattgagga cgacactgag aacatggcag 480
 agaatttctg gatggagaac ttcctctgga ttccttcatt gatgtctttc agagcaaacg 540
 ganactgncc cacatgcnac ggggtgaaaat c 571

<210> 2684

<211> 567

<212> DNA

<213> Homo sapiens

<400> 2684

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 aatgaagatg aagactgtta ctcaggatga acgatatcag tgctataatc aagagcaaaa 180
 tgatacagag ggtccaaaag acagagaaaa ggatgtcagt gaatattttt atgagaaatc 240
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 aggtttccat cgctgcanaa gatggcactt tagacgatac cttttccgan gaattggaga 480
 agccccgcag tttacggaaa caagaagaca acctatntgc tnaancctca aaagagcttt 540
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<210> 2685

<211> 690

<212> DNA

<213> Homo sapiens

<400> 2685

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gcactagtca agatggaggt gatgctggta cttcacatga tttcaagtat ggtttgatgc 240
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tagcagccag tgttggaata agacatggat ctgcacgtta tgggtgtttgt gtaactgtgc 600
anataaatca cagccaggaa ggcaagaagt gnatcaggg acaggatcaa attccccgg 660
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<210> 2686

<211> 608

<212> DNA

<213> Homo sapiens

<400> 2686

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tgaatttggt agatgtcttc acatcctggt cctcctacce caattctcaa acacaaanta 540

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ctctgttgcc ctattatant cctgcganaa ttctggctaa ngattaagtt gacngtctaa 600
gcccccaa 608

<210> 2687

<211> 511

<212> DNA

<213> Homo sapiens

<400> 2687

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cgttcgacct cagccaggat ccggacttcc tgactatcgc catccgcgtg ccctacgccc 180
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<210> 2688

<211> 453

<212> DNA

<213> Homo sapiens

<400> 2688

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 agtgcgtgac ggtggagcgc gagctggata aagtgtgca caagttctca ngctacnggc 420
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<210> 2689

<211> 742

<212> DNA

<213> Homo sapiens

<400> 2689

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 aaaaaacttt ntgaatgtta nc 742

<210> 2690

<211> 724

<212> DNA

<213> Homo sapiens

<400> 2690

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 agaagcagaa atgtttcnac gatctcttgg caagtgcaaa aaaagatctt gangttgaac 660
 gacnaaccat aactcncgtga attttgaact gagtgatttc caanaaaatt ttgaagaaac 720
 cccn 724

<210> 2691

<211> 563

<212> DNA

<213> Homo sapiens

<400> 2691

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<210> 2692

<211> 754

<212> DNA

<213> Homo sapiens

<400> 2692

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 ntccttanga ataagttttt atatacactg ctaaagtgt gatgagaatc ataaaacact 660
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<210> 2693

<211> 653

<212> DNA

<213> Homo sapiens

<400> 2693

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gttgcttcgc atcaaaaagt ccatcccagg ggatggagaa ggagatggag acctanaatg 540
aaatgttttt gtctttgtgg catgcagcta actcctcttt anttttgtct taggggccag 600
tgatctttat ngggatgcct atttaatggc ttaattttgt tgcntntnaa cca 653
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<210> 2694

<211> 710

<212> DNA

<213> Homo sapiens

<400> 2694

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gttgtcattt cactactcag tgttttgttc accagttctg gaggaggacc agcaaagaca 240
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gtactggctt tgtgttgtaa agttggtttt catacagctt ccagaaagct ctctgtcnac 480
gttgggtggan ctaaagctct tcaancitaa tctcatcttg tttctgtgct tctcttctgc 540
ccatgggtca ttgttctttc tgtgacaact ganantaaag tggantcttg gttttctctc 600
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attatgcctt ttgcaacggt tatctttttt gtcatgatcc tggatttcta cnttggattc 660
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<210> 2695

<211> 506

<212> DNA

<213> Homo sapiens

<400> 2695

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gtggttgttt ggatgtgta aggaatgctt agcaaatgt gtgtgtatct ctgaagctnt 480
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<210> 2696

<211> 454

<212> DNA

<213> Homo sapiens

<400> 2696

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ctcagcggtg ccagcggctg ctaccgcac cacttcttc aagggcacga gcccagctc 180
caaatacgtg aagctgaatg tgggtggagc cctctactat accaccatgc agacgtgac 240

caagcaggac accatgctga aggccatgtt cagcgggCGC atggaagtgc tcaccgacag 300
tgaaggctgg atcctcattg accgctgtgg gaagcacttt ggtacgatac tcaactacct 360
tcgagacggg gcggtgcctt taccCGagag ccgCCgggag atcGanganc tgctagcana 420
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<210> 2697

<211> 729

<212> DNA

<213> Homo sapiens

<400> 2697

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caagtgagct gtcaccactg actaaagaag agaaaactgc ggcagagcaa ttcaaatttc 180
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agaagggcag ataacatatg aataaagttc agccaaaagg atcaaagatg aataaaacga 420
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taaanttttag gccaaacatt tgtgttatca tgatatataa tttcnttttg ttaattttga 660
ttgccntgt ngtcncatta ttgttgaaac tgcttttatg ttacctgttn tccccccca 720
aaacctaaa 729

<210> 2698

<211> 631

<212> DNA

<213> Homo sapiens

<400> 2698

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gagttaatac agttgtggtg acaacttctg cccagaggc tttgctggcc tcctgggcga 180
gaatttcagc cagggcgagg acaccagagg cagtggaaac tccacaagag gcctctggtg 240
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actggtacat tttagggtat atcaaaatcc ctttgagggc cggtgattcc tggaccctgc 360
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ggcatgatct cagctcaccg caacctccac ctcccaggtt caagcaattc tcctgcctca 540
nccttcctga ntncctgggat tacaggcatt ttncacat gcccggttaa tgttgtgttt 600
ttantaataaa tggggtttct ccatgttggt c 631

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<210> 2699

<211> 742

<212> DNA

<213> Homo sapiens

<400> 2699

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gtcggaagag caagccgagg cggcggagag aaaagtccag gagaacagta tccagcgggt 180
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gtgttcttcg aagagccttg aacataaaac acagacnct cctgtggagg agaattgtac 480
tcacaaaatt agtgacctgg aaatttgtgc tgatgagttt cctggatcct canccacct 540

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ccgaataactg gaagttggct gtggtgtggg aaacacagtc tticcaattt taaaacgaa 600
 caatgacccg ggactctttg ttatttgctg tgatttttct tccacagcta ttagaactgg 660
 tccaaacaaa ttcaaatat gatcctnctc cggtgttttt gcctttgttc cccaacctgt 720
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<210> 2700

<211> 560

<212> DNA

<213> Homo sapiens

<400> 2700

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 tcaactcanca accccaatca acacacaagg gcttcagcct gcacctatgg gtactcanca 480
 acctcagcct gaaggaaaaa ttcancantg gtgttggcan atggaccaca attgtggcca 540
 acctattanc aatccattca 560

<210> 2701

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2701

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 gtcaacattg gtcagttaga gcatcaactt atattgtcag tggatccttg gaagattaga 660
 caaattttta ttgaattaca tggatgact tcnaacgcc agttctggac agtgtctaata 720
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<210> 2702

<211> 484

<212> DNA

<213> Homo sapiens

<400> 2702

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 tgctgcccgg ctccaccatg cgcaccagcg tggactcggc ccgcaacctg cagctgggtc 180
 ggagccgcct tctgaagggc acgtcgctgc aaagcaccat cctgggcgtc atccccaca 240
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 caggcctatg ccgtttccag attgtacagg tcttaaaaga naaccatata ccattgctga 420
 agtggancag ttggaccgac ttgaggantt tcccaacacc tgtnaaatga gggaggagct 480
 anga 484

<210> 2703

<211> 696

<212> DNA

<213> Homo sapiens

<400> 2703

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tctgaaggag aaccattggt tgctggggga agtgccattc tcaaagagga gaatctttca  180
gaagattcta agagctcatc actaaattca ggaaattatt tgaatcctgc ctgtagaaat  240
cctatgtata ttcatacttc agtctcccag gatttttctc gaagtgtgcc aggcaccaca  300
agttcaccac tagttgggga catatcccc aagagcagtc cccatgaagt taaattccaa  360
atgcagagga aaagtgaagg aaattgatgg gaaggctctg ttcctactca agantgatgt  420
gatgatgaag tatatggggc tgaagctggg gccagcatta aagctgtgtt actacattga  480
aaagcttaaa gaaggaaaat acagttaaaa aaatgtgtna gtttanattg ggacataatt  540
ctcagggtgn ctgttaacat tttaatTTaa aagtatttct cttaacantt tttgttttgt  600
naacagttcc cataaaaata ttttatcana attgcaaaac tgttntaaca ntttcaatcc  660
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<210> 2704

<211> 525

<212> DNA

<213> Homo sapiens

<400> 2704

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aatcctggaa caaggctaca gcgtcgaaga tccccagcgc tgcgggctcg gagagcagtc   60
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gctggcactc ttgccttccc cgtccctcat ggcgctgctc cgacgcccga cgggtgtccag  180
tgatttggan aatattgaca cagganttaa ttctaaagtt aagaatcatg tnactattag  240

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gcgaactgtt ttagaagaaa ttggaaatag anttacaacc agancagcac aagtngctaa 300
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 actgaaacct actgcttctg tcaaaccagt acagatggaa aagttggntc caaagggtcc 420
 ttctcccaca cctgaagatg tctccatgaa ngaagaaaat ctctgccaag ctttttctga 480
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<210> 2705

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2705

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 aatctgggga actcctttna agtctggggg ctgacacccc ctccctgttt gacgggcca 720
 ccctggaatt tgggggaaaa tgactttccc ttttttgcc cctnanggg ttnncttan 780

<210> 2706

<211> 512

<212> DNA

<213> Homo sapiens

<400> 2706

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ttgagtatct ttattaagga aacccttacg aatcctgaaa attatgctag catgattttt  120
ttatatatag aagtttataa ataaaccagg tcaggtttgt atatgtataa ttgttgacat  180
caatgatgtc tttccatatt cttatctggg ctttaagaaat acattctgta tttttccaga  240
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<210> 2707

<211> 355

<212> DNA

<213> Homo sapiens

<400> 2707

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agtgccgaac cttcggctgc tccccgcctc aggacaccaa gatgcctggc gaacagcagg   60
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aggatgaggg tgaggagaag tatgaggtgg tgaaactcaa gatcccatg gacaacaagg  180
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ctgcagcctt gaactcttgg gctcaagtga tcctccttcc tcggcctacc aagttgttgg  300
gactacaagt gcacccacc acacctggct aatttttcac tttttgttna nacga       355

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<210> 2708

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2708

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gttttcccgg attttgagtc tgaaaaaaaaa aaaggttatt ttgccanaac cttccaattt 720
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<210> 2709

<211> 620

<212> DNA

<213> Homo sapiens

<400> 2709

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gatggtggac cgcgagcaac tgggtgcagaa agcccggctg gccgagcagg cggagcgctg 240
cgacgacatg gccgcggcca tgaagaacgt gacagagctg aatgagccac tgtcgaatga 300
ggaacgaaac cttctgtctg tggcctacaa gaacgttgtg ggggcacgcc gctcttctg 360
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gagggtcatc agtagcattg agcagaagac atctgcacac ggcaatgaga agaagattga 420
 gatggtccgt gcgttccggg agaagataga taaggagttg gaggctgtgt gcccggatgt 480
 gctgagcctg ctggataact acctgatcaa gaattgcagc gagaccact acgagagcaa 540
 agtgttctac ctgaagatga aaagggacta ctaccnctac ctggctgaaa atggcccccg 600
 gaanaaaaaa agggcnacgg 620

<210> 2710

<211> 833

<212> DNA

<213> Homo sapiens

<400> 2710

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 aaagaatact aattcatttt atcactttca ttggtaaaac ttttaaattc aacacctgaa 180
 aatcatgagg gaaaatgatt acctcttgag atatattatt gatgacattt aaagggaaaa 240
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 agcatttaaa ttgctagt atgaatcaaa taaattgat atacttaaaa taatttgac 360
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 gcnaaacaaa taactgtag aaggtacaat tttcttctt tccctgtaac tgaaagtgtt 660
 aanaattggt ccttggggaa aaattttttt aaaattccct ngaatcntag gggcncattt 720
 tgttttccta ttgaaaaaca attaccctgg ttacattctc caaaagaatc tcccaaata 780
 atttttataa agttcta atg gcnccgtgntn aataatttaa aaantatttt nca 833

<210> 2711

<211> 829

<212> DNA

<213> Homo sapiens

<400> 2711

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gaaattgttt atgcagttga cttcnaccac aaganggaga tccatttaaa tggatgttcc  480
ctggaaatgc taagcaggcc ttccctactt atcacagatt cattcaatgc tacatatgtt  540
cngcctagaa gaaaacagag agatgancag cttctgacaa atgtcctgga aacacttcna  600
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cttcttgatc anatttggga ggactaaaga tgcaggattg ggtgtttact cctttggcac  720
tcctaaatta atgtcagttt accaatgntg ggtggaagtt ttcctaagtt cccngttna  780
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<210> 2712

<211> 715

<212> DNA

<213> Homo sapiens

<400> 2712

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cagagccttg gcaagctctc ggtcagagcc agcttgctgt gtgcacattt ggctcatctc  180
cccggcggat ggcagttgca cagtcatccc gctgatcttc anagtgttgg aaggcttcgg  240

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ggctgaggtg gaaaaaggta acattgattt atgtatctct tictctgggc atctctatat 300
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 gggaaagggg aaatctcaca gggcagaana aatgtccggc attttttggg tatgaaagaa 420
 gatacgaatt aactcattta aaagtttggg tcttaaaaga caaatacaca tcccaaattg 480
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 tcctgaacgg gttccgtctc ctgctctanc ttgaacagct tcaaataaaa ttctggttat 660
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<210> 2713

<211> 749

<212> DNA

<213> Homo sapiens

<400> 2713

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 tttttccttg tggatcatca ggaggtgatc aattacatgt gcacagtgt aggacgggag 180
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 gactatctgg ggctcgtctc tctgttctt 749

<210> 2714

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2714

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gataacaagc aaaagaaaac cangcaacac catattaaag aagaaaacaa tcaactctga 660
aatccactta gaaataatgt ttattcaaaa ataaggctct tgctttaaga aattgttacc 720
tggcttgcat cnttcctaaa aactcctatc gtctgttttc caaaccccaa nggaaggaac 780
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<210> 2715

<211> 736

<212> DNA

<213> Homo sapiens

<400> 2715

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ggctccgttc tccctcgaag cactcccccc agtccatga atggaaatcg gctccgcagg 120
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acccgctggg gccagcccc tactcatggt gccagaaga cctggctatg gcgccatggg 180
 caaaccatt aaactgctgg ctaactgttt tcaagttgaa atcccaaaga ttgatgtcta 240
 cctctatgag gtagatatta aaccagacaa gtgtcctagg agagtgaaca gggaggtggt 300
 tgactcaatg gttcagcatt ttaaagtaac tatatttgga gaccgtagac cagtttatga 360
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 gccactggga attagacaag ccaatcagca ctaaccctgt ccatgccgtt gatgtggtgc 600
 tacgacatct gccctccatg aaatacacac ctgtggggcg tcatttttct ccgctccaga 660
 aangatatta ccaccctctn ggaagggggc agggaaattt tggtttgat tcatcantct 720
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<210> 2716

<211> 664

<212> DNA

<213> Homo sapiens

<400> 2716

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 gagcgttaca tgacccaga agactttgtt cagcgtatc ttggactgta taatgatcca 180
 aatagtaacc caaagatcgt gcagctcttg gcaggagtag ctgatcaaac caaggatggg 240
 ttgatctcct atcaagagtt tttggcattt gaatctgttt tatgtgctcc agattccatg 300
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 gtcaanaaaa tttttggaca gactattatt catcatcata tcccttttaa ctgggattgt 420
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 acgcagtttc tccaggant gcaattggaa catgcaagac aagcctttgc actcaaagac 540
 aaancaaaa gtggcatgat ttctggctctg gatttcagt acatcatggt taccattaga 600
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tctc

664

<210> 2717

<211> 684

<212> DNA

<213> Homo sapiens

<400> 2717

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tcctggacag tttggacgtt acagttcgtc aggccgtgat cagtggcctg cagtgggact   60
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aagatctgga tactaacagt ttcagtttgg gaaatccaag aaaaagaatt atcaagtttg  180
ataggaagc tctgtagcct tgactccagc aagaagaaaa ggtcaaaacc acgtgtttcc  240
caaaagtcca gactacaatg attcagctga ctgaggaca aggcctagca tttggctgag  300
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ttgtccagac aggttgagga ttcggttatg atcccctggg gaggtancag ggacctctgc  420
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tgtgacttgg tccttaagtc aggtcactat ctgcctccca ccctgggggc aggactgaag  600
tatanaaaaa catcntggct gttcaggaag ctgtggtttg aaaactganc ccanaaggc  660
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<210> 2718

<211> 588

<212> DNA

<213> Homo sapiens

<400> 2718

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ggggagacac ttaagggaaa ttaaactgca gaggcaaga natgcctcag tcaagtcagc 180
 caaaaacacg cgggtcatcc ccaagcccca ganaggcttt gaattgaagg cgantgcctc 240
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 gggaacaac atccttacag cactgcagct gcaccancag aaagaacggt tccccacgca 540
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<210> 2719

<211> 659

<212> DNA

<213> Homo sapiens

<400> 2719

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 ccgagcggcg ctacaaaaa cagctggggc tgggtggccac gtactttttg gggatcctga 180
 aagccaaggg gaccctgcga ccacctgagc gccaggccct gtttggctcc tgggagctca 240
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 tggagggtct ctgccgccac ttggagctct ataaccaatt tgctgccaac tcagagaggt 360
 cccanaccac cctgcaggag cagctaaana aaaataaagg tttccggang tttgtacggc 420
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 agccctgacc atcaacaagc tcacacctgt cttccctca tgaanaacta ctgcttatgt 600
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<210> 2720

<211> 590

<212> DNA

<213> Homo sapiens

<400> 2720

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ttctgttttt tttttttttt tttcccaaag tcttgctctg tcgcccaggt tggagtgcag 180
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ttttggtagg gcggggtttc accatgatgg ccaggttggt tttgaactcc tgacctcaag 360
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gcccactttt ctttctttcc ttcttatttt gttatgctgg cagccatttg cccctgcatg 480
gtatgggata aaanangana gcctttcctc cctcaccttc tccaaatcta ggtgaaatca 540
cagantacaa ctcttgagaa tgctgaatgt gtaaagttgc agangggatc 590

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<210> 2721

<211> 688

<212> DNA

<213> Homo sapiens

<400> 2721

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gagctggggc cgtggcctgg cctggtgagc ggctatacgc tgctggtggg gcctccactc 540
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<210> 2722

<211> 894

<212> DNA

<213> Homo sapiens

<400> 2722

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 cgcaccccc tcagtcgctg tgagcggttat ggatcatgta aaaagtcttg tattgcatct 180
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 aatattgatt ctccnaaact gtatagtaac ctgctaacca gtcggaaaga actaccacc 660
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 gtgctcttcc ctactccng aattctacac ccggtgcttc caccaaaaaa aaaccggcn 780
 gggccatgaa aaaaccccct ccagaaaaan ggccntggn ccttgggaac ttccaaagga 840
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<210> 2723

<211> 618

<212> DNA

<213> Homo sapiens

<400> 2723

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tgangentac ctccccca 618
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<210> 2724

<211> 647

<212> DNA

<213> Homo sapiens

<400> 2724

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ttattaagaa cgtnattca tcagaattct ggaggacaga agtcacaaaa cacaggatta 480
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 tgtgatgaca gtaaacgcac ttatttacag actaatggaa aantcatttt acctggggcg 600
 aaaatacccc naatcncnaa cttgaaagaa aggaaaacna gtttgtc 647

<210> 2725

<211> 570

<212> DNA

<213> Homo sapiens

<400> 2725

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 ggataatggg gggtggggcc cgttgggggg taaaggggca atagcgctct ttcacaggct 180
 aacctcggct cttcccagtc ctctggacta aaatggggaa cacattgggc ctggcaccaa 240
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<210> 2726

<211> 623

<212> DNA

<213> Homo sapiens

<400> 2726

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gactacttca tcctcatcct gcaggggaag gtggaggtgg aggcagggaa nganaacatg 180
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ctgtggtgga cnaaaccaca actcttctca acgancgttn ctccttgctg cacaagcct 600
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<210> 2727

<211> 649

<212> DNA

<213> Homo sapiens

<400> 2727

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<210> 2728

<211> 756

<212> DNA

<213> Homo sapiens

<400> 2728

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aggcatttga aggagaatac cctaaattat tacgtcttta taatgactta tggaagcgtc  180
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atgttgacct acaacacatg gaagatgatg cacaagatat attcatacca naaaagccag  300
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ttgggcctct tactgaagga cagagaanaa atgtggcagt tagtgaattc cttgtataag  660
ttgccccaat cattaacaaa ngttgtttcc antcaganct cattcccact gggcagcttn  720
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<210> 2729

<211> 590

<212> DNA

<213> Homo sapiens

<400> 2729

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gaaaagggat tctccctgct gtcacagaat tgtgaatttg ctggcaattc tgaaggcatc  180
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ctgctagttc cagctttcac tgtgaccggc aatggttctc aatctggcaa taagctggca 240
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aaccttaaaa cggggacatt atcctgtatt atccanaang gtccagtgtg atcttatgag 540
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<210> 2730

<211> 679

<212> DNA

<213> Homo sapiens

<400> 2730

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aaatagataa aatggtagan accacagagt taatgactgg gaatattcag agcctaaaga 180
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ctgcaggatt tattatctcc tgatatgcct ttaaaattag tctttgtagt tctatcatta 600
acatctaata tagttctgaa gactgttttt ancanttgnc anatctagga aaactaacgt 660
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<210> 2731

<211> 626

<212> DNA

<213> Homo sapiens

<400> 2731

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tgtgttgagg gaagatacga agtcgcggga gcagttgggg actcaatgtg tgggcaacaa 180
gggtcctgct gagctcagga gctgcacgga atggtggcag tcaccttgcc agtgcagcag 240
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gccgtctcca tcctcagagc cggaggctgg cccttcacag cctccagtca ggcagggggc 480
cctccagggt ggcctgctca tgggctacag cccagcaggg ggggcgacat cccccggggt 540
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ctctgaagaa aaagggccan cccctc 626

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<210> 2732

<211> 675

<212> DNA

<213> Homo sapiens

<400> 2732

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aaaagaaaaa agagagtatt aaaatttctc attgtaaaat ctatatttta gaatcactct 60
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gttctttttt tttganacag ggtcttgctc tgctgcccag gctggagtgc agtggcgtga 180
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aagcaactgg gaccacaagg tgtgtgccac catgcctggg taattttttg tttttttgtg 300
ganatgcggg tctcactgtt ttccangctg gtctcaaatt cctgggctca agtgatcctc 360
ccacttcagc ctcacattgt tgggattaca gtcacnaacc actgtnccca tccatatgtc 420

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attctttana cacactactt actaaatttc tctttttaaa gggatatact gaatttccgg 480
 ttgaagccaa cttaactgct aattttctat tttagcttta aaacattgat aagcaacatg 540
 aancaatcta gaacttaacc tttaaatggc tttattaaag aaatccccta tgaaaatcnt 600
 gcaaaatgat tattttacnaa cnatcctacc cagcacataa naaatcctc ctcnattctg 660
 aaataccatc ttctc 675

<210> 2733

<211> 466

<212> DNA

<213> Homo sapiens

<400> 2733

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 gttaaacgta actgcaattc ttcttatagc actggttccc tattcttcag tactgcagag 180
 tgaaagggca gatgaaaact tttacagtcc aactttatct aaaaacctta agtacaatc 240
 aggggtgattt gcaaagccat ctcagcagaa gtcaatgtag ccattccctg atggttggct 300
 cttttcttcc tgtgtgtgaa attcctatct agtaagcatt gagcacggaa cgaggtctgg 360
 ctgggcttgt ccaggancct tgtgagggtg catcacagaa tggggctgtg tgatcatcca 420
 antgtganan caagggtcgg tganctgcct gtattgcccg tgcaga 466

<210> 2734

<211> 605

<212> DNA

<213> Homo sapiens

<400> 2734

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gttctgaggc tgggctggga naccgtgggg ctgtgaggag cgcatanaac cgtgggtggag 180
 ggcgaggctg ggccaccggt tcttcaagct cggaatggag ggggaagagc gcagagggct 240
 ggctgggagg aactcgggtg ggcggtgaagg agacgagggc nagaaaagaa acttcccttc 300
 ttccaggaag ggtcttcgaa accctctccc cacagcccct ctcgtcatta gcatggcaat 360
 gaggagtttc tgtaattcna cttggagggg cggtatgatcc cttggaaact cananctcgc 420
 cgaaaaagcc gggggcggcc gggctcttct tccccacctt cctctctcgc tcgctctccg 480
 cccctttctc tttcccactc agttttgcac cgggganccc tccgggatgc ggaactactc 540
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<210> 2735

<211> 738

<212> DNA

<213> Homo sapiens

<400> 2735

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 aaaatttctc ttcaacctat agcaactgtt cccaatggag gcacaacacc taaaatcagc 180
 aaaactgtac ttttatctac taaaagcatg aaaaagggtc atgaacatgg atccaagaaa 240
 tctcactcta aaaccaagcc aggtattctt aaaaaagaca aagcagtaaa ggaaaagatt 300
 cctagtcatc attttatgcc aggaagtcct accaagactg tgncaaaaa accccaggaa 360
 aagaaagggt gtnaatgtgg gcgtgctact caaaatccaa gtgttcttac atgccgaggc 420
 caacgctgcc cttgctactc taaccgcaaa gcctgcttag attgtatatg tcgtggctgc 480
 caaaactcct atatggccaa tgggganaaa aactggaggc atttgccgtg ccanaaaagg 540
 cttggagcag accangctca ctttgggcat taacgtgact ancattgctg tgcgtaacgc 600
 tagtaccagc accagtgtaa taaatgtcac aggggtccca ntaacgacnt ttttagctgc 660
 cagtacacat natgataaaa atttggatga aactatnaca tganatccac tgtttaaatc 720
 cgtgggtctt ttaaaacc 738

<210> 2736

<211> 622

<212> DNA

<213> Homo sapiens

<400> 2736

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gtctgggaag tgccatggtg aatagtcaca caggccagat gagagactga ggtgtgcatg 180
ttctgtggga ggggaagtgt agcctgcggg tgtggaatgg tctgggtggc cgtgggaaac 240
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gggagacggg gctggagagc ctggggagag gggaagctct tctggaggga gtgggtgcac 360
cggcgcactg cgcagcctcc tagtaaaggg cctgcagacc cagctggcct catgcctgga 420
ggccttangg gactctgang aaggcagttc cagaacagtg agtcaggacc agatgcagtg 480
ggttgcaagt agaaccagga ncaganactg gatgtggtgt attgtttcan aaccttccan 540
cgtgagtact accatatgga taccttagcg tgggaagcgc ccaggccacc cccggtccgg 600
gtnanaaaaa gcccanaact ca 622
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<210> 2737

<211> 661

<212> DNA

<213> Homo sapiens

<400> 2737

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aagggggccg anaccgggcc ttactttctgt aacgatactg tgaggcatcg gaaggccagc 120
ctgttgtgtc cgttttgaag gtcggtgggc tagactggct ggccttctag ggggtgtggag 180
acttcccaac tctgcccttg tgctttcctg gaatcccaa tatgcccgga ccccggttta 240
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ctccittgct gcgagccctt ctctcccgtc cagagttgct ccgagcctat ctgctcagtc 300
 cttagcgattc ctgtggggct tgggacgcgc ggttcaagca ccccggaacca tatggatgca 360
 gcacccatgg gttctcgctc caatgcttct ttcctccttg gggcgtaact cagaccctgg 420
 gcacccctct ccaactgccca ggggagacct gggttctaga tttggctctg cctctactat 480
 cticctacct cctanaacct cagtttggct tgtgtaaaaat angatgactt aagggtcctt 540
 tcagccccta atcctgggggt actttactct gtaccgcctc cttaccacgc cttgtgcacn 600
 ccactctgaa ngcactgaat tctancctgt ttattgtaan tggatgattaa nttgggtctc 660
 a 661

<210> 2738

<211> 715

<212> DNA

<213> Homo sapiens

<400> 2738

attggacatt atctcaagat gaatatcacg gtaccagagg gattacatca acgggtttat 60
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 ttcctctgaa cgcctatgaa gatgatgttg atcctgaaac actaagctac gctgggcagt 180
 atcctttctg aaacagaatg gtagaatttg tgcatttttc ttcaatattt ttatggtgat 240
 ttttttgtga ggcatttagt aaaaagcttg cacattattt tttgctctct tttttatagt 300
 gaaatctgta tattgttcat ttaaattacc atgctagtga aaattgagaa caactttttg 360
 tttataaacc cgaggctcat ccaactatgca tcctgattac ttagattgac tgacagaagc 420
 atgcacaggg tccgtcactt acggtacaca ttccaaaggt ggctcttgag aggacctcct 480
 cgtggcaagc aagctcgact tatcaggaag ancattcttg gcatttgagt gcatcaggag 540
 aagatgccct tcccatagcc actggccatg ttcattgcagg ctgatgcaga nccctgantc 600
 acttaagtgg tggctaagac tttccctctt gtttccctta aggaaggaa tcagtgatgg 660
 gcctgggncc ttgtcaaaaa anaccaactc ctgcggaaga cagatngana ctanc 715

<210> 2739

<211> 755

<212> DNA

<213> Homo sapiens

<400> 2739

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cgtccctact gttgccatta attggagctg tccttaagat ggtcaccata ttcttattca  180
ggctgttgtc attttcccca gagatggttt gtttaacgaa tgataggctc tgtgcctggg  240
gatgttagca gactctgggg tttgtacagt gatgccttct ccctggccca gagctgaata  300
ttcatctaga attaaagttg gatttgatat aacaaatttc ttctataca ggttttacat  360
aagagagaca gtaataatgt caaggatagc ctgtgtgggc agaaattggg agtcgtgctt  420
ttgaatgtca gctgtagagc caactctgat tatctagcca ttgatcatac aaattgatag  480
aaacattagt cagtaatttt agcttcttgc caaattgttc acaacatcta aatgtaatgg  540
tgatgtgatg aanataagta gtacaaagan accaaaataa tttggggaga attangaatg  600
atgacaattt tttttaacaa cttacctcta ataaggttac ttgggatgaa ccaactcanc  660
ttccttccca tggatangaa aggactctgt gtnttattcc ngttttattgg cacaaaaata  720
cttgttttta aanttcctg aaaaaccctt gatgg                                     755

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<210> 2740

<211> 804

<212> DNA

<213> Homo sapiens

<400> 2740

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ttctgaacaa gagcctaaat ttccttgtaa agaatgggac ccaaattttac cttcattgtg  180
tcttccaaat cctgaatatt tggctcctga atacatactt tctgtgagct gtgaaacagc  240

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cagtgatatg tattcttttag gaactgttat gtatgctgta ttttaataaag ggaaacctat 300
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 tcgttttagga tctagttcac ttacaaatat acctgaggaa gttcgtgaac atgtaaagct 420
 actgttaaata gtnactccga ctgtnagacc agacgcagat caaatgacaa agattccctt 480
 ctttgatgat gttgggtgcag taacactgca atattttgat accttattcc aaagagataa 540
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 tgtcattgtg ccagaaaatt ttgccttggt tgacttcana atttgtnaac cctgacatgg 660
 tancctttgt tttgcccaat gttctactta ttggctgaag gaatgcccc aaanaanaat 720
 atgtctaatt taattccttc ctgaactttg ggccccgtgt ttttaagcccc aggancccat 780
 ccnnaatttg gtttattttt ccca 804

<210> 2741

<211> 652

<212> DNA

<213> Homo sapiens

<400> 2741

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 gaanagcttg gggcctgcct ggtcctcggc cacggtgggg ctggggcctg tgactgcgtg 180
 tgcagagggt ccgcgcccag ggcccgggaa aggggctgcg ctgccccgag cgantccccg 240
 ggcgccccca gcctgctgca gccacctgg gctccacatt tcggccccct ctcctctccg 300
 ctgctctggg ctcanccacc aagctccacg ctgtgggcag aatccactgg ggcgcangaa 360
 acctcagctt ccgcagccca cctggccttc gcagtcttcc tctccagggt tttatttcaa 420
 catggccttt tctgctgcga ctcaactgtg gtangggcca agtttgggtg tgtgaagcca 480
 nggaagtgcg ttgtgttctc ncggaaaaaa aaaacgcanc ganggaccgg ggcacacgga 540
 ccagctcacc aaccgcagcc aaaccaccaa ttctgtcccg tggcccttgg gtgaacggtg 600
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<210> 2742

<211> 610

<212> DNA

<213> Homo sapiens

<400> 2742

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cccaccagtg actccacagg caccagggca tgcaacaggg ctgggacagg aaggctctct 240
tcttcacctc aagcctgctg ggctaacact tgcgattttt actanagtta actttgtaat 300
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tctaagatgg cttcccagtg aggtgatgaa naagtttgag ctttanantg cagttgcaaa 420
gctctttctc gacctgaaca atggctgtng ctgtggacca acaaatccag actccttcag 480
tacaagatct ccaaatagtt aaactggaag aagattccca ctgggagcag gaaatttccc 540
ttcnagggaa ttaccctgga ccananacat cctgccagan cttttggcat ttccgttacc 600
aagaancatc 610
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<210> 2743

<211> 857

<212> DNA

<213> Homo sapiens

<400> 2743

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aggttccaag gaggggaaggc gttcggcttg ctcaaagccc ggcaggagag gaggtggcc 180
gagatcaacc gggagcttct gtgtgaccag aagtacagt atgaagagaa ccttccagaa 240
aagctcacag ccttcaaaga gaagtacatg gagtttgacc tgaacaatga aggcgagatt 300
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gacctgatgt ctttaaagag gatgatggag aagcttggtg tccccaagac ccacctggag 360
 atgaagaaga tgatctcaca ggtgacagga ggggtcagtg acactatata ctaccgagac 420
 tttgttgaac atgatgctgg ggaaacgggc ggctgtcctc aanttagtca tgatgtttga 480
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 ctttaaaagg ggctctgggt tccggggaat cctgaacctt ggggttccct cctctcttct 780
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 aaagggggca gggcccc 857

<210> 2744

<211> 586

<212> DNA

<213> Homo sapiens

<400> 2744

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 tgggggaaca aatcaatgtg gctgtttttc cgtggaaaga attcccactg cagtgtcccg 180
 gancctgcgt gtggtgggca agctcctcaa atggtatctc acagggaata ggggagtctt 240
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 tgctggtgat tgggtgtggc aactcanaac tgantgagca actgtatgat gtgggctatc 480
 gggatatant gaacatccac atcngtgagg ttgtcatcaa gcaaatgaan gaatgttatg 540
 ccaccnacc gcccagatg ancttcttga agatggacat gacgca 586

<210> 2745

<211> 633

<212> DNA

<213> Homo sapiens

<400> 2745

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gcggcgggat gaggagcttg aggaagcagg caggggaaat gtctgccgcc gccagctctc   60
ggggagcgca aactgcagg tggttctaac tttgatggtt tgagaccaa tgggaaggga  120
gtgcctatgg accaaagctc caggggtcaa gataaaccan aaagcttgca accaagacag  180
aataaatcca agtccgaaat tactgacatg gttcgctcct ccactatcac agtgtcggac  240
aaggctcata ttttatccat gcagaagttt ggactgcgag atacaattgt gaaatcncat  300
ctactacaga aagaaganga ttacacctat atccanaact tcaggttttt tgcgggaaca  360
tacaatgtna atgggcagtc ccccaaagaa tgcctccggc tgttgctgaa caatggtatc  420
caagccccan atgtctattg tgtanggttc cangaacttg atctgagtaa ggaagctttt  480
ttcttttcag atacccccaa ggaagaanaa tggttcaaag ctgtgtcaga aggtcttcat  540
ccagatgcca aatatgccaa ggtgaagctt atcccactgg gttgggatta tgctgctggt  600
atatntcaac aggancatgc ncttatatc tcn                                     633

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<210> 2746

<211> 864

<212> DNA

<213> Homo sapiens

<400> 2746

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gcgctccaag atggcggcga acgtgttccc gttccgcgac gcccggtgccg caccggaccc   60
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cgggtcgttc caagtccgcg ctggctgggc gtgtcccggg caggaccag gtcccgagcc  180
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cccgcaggtg gggaacgctc tgggcagcct ggagccactg cgctggatgc tgcgctcgcc  300
cttcgaccgc aacgtgccgg tcaacctgga gcttcaggag ttgtgtctgg actacagctt  360

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ccagcacctg ggtgtctcct cacagggctg tgttgatcat cccatagttt tgacagaagc 420
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 cacctgggca ngccatcacc cctccagccc gccatgggaa gaaaaattct gccttnaaac 780
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<210> 2747

<211> 553

<212> DNA

<213> Homo sapiens

<400> 2747

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 tacganaggt cgagggcgac ctgggcacgc ttcagtggac cgagggccgc attcccaggc 180
 cgcgattcct cccagagaag gcaaaatccc atcagacctg gaaagcagga gacagggtag 240
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 ccagagacac gacnaggatg gaaaatccag aagccacnga tcaaagactg cccacagcc 480
 aacctcnnet tcaagagctt cagtaccacc ggcnccact tggccatgga attgctgtng 540
 gctgcgaccg gcc 553

<210> 2748

<211> 685

<212> DNA

<213> Homo sapiens

<400> 2748

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aatgaaaaa acatgaaagg acttagcata atgttat ttt atcttttcta caactttgtt 60
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tctaggttta taaaccggtt tcacattatt tcatttgatc atcacaagag ctttgtgaag 180
taagccgaga agttgttact ggtattttaat aatagcaata gaggagttaa agactttccc 240
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tgttaacca aattgctgct ctgttttagg tctcaatttc atctgtaaaa tgataactaat 360
agtacttata ccattggatt tttgttgaga tttaaataaa tagccaaaag ccaatacata 420
ataaacactc aataaagatt aaccataagg agagtcatga tctggttcca ggaatacatt 480
gttagatgac tgaaaaattg tattacttca atgaaaatac tataaataat aacattttca 540
tatattagtt ggttctcatg catacataat ctaattttat ttgatcctca caactgttta 600
agttttatta aatatacatt atccctgttt ggtttaaatt agaaacntac natncctggc 660
ctgctttcnt tccacnaaaa ttatc 685

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<210> 2749

<211> 556

<212> DNA

<213> Homo sapiens

<400> 2749

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acagcagaag cagtaggaag agaagagaga ctgaggatct tgaattaggg tctagatgaa 360

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aatttaggat gattcctacg tttgggaatg gagggagagc ttaaacaaga tagagaatat 420
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<210> 2750

<211> 747

<212> DNA

<213> Homo sapiens

<400> 2750

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 aatctttctc anccaagatt tgctcctgtt ttaatcaatg ctgctgaaat aattattgat 660
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<210> 2751

<211> 570

<212> DNA

<213> Homo sapiens

<400> 2751

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gaggattacg gcgaagagga catagtggat tttcttcgac ggcttgtgga gagtgatccc	180
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caagagtctg agccctgccc tcaaagcccc tctgcctctg ccaccttccc cagtgtctca	420
gacagcctgc ctgaggtggc catgccccag aactcctggt gacagaagag gaagccaatc	480
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<210> 2752

<211> 614

<212> DNA

<213> Homo sapiens

<400> 2752

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tgagattaag gtggttgcca aggggaacaga aaacagccat gagtaaataa atcaagactt	180
taaaggattt agatcgggtc tatggccagt tgcagagtgg gcaggatctt aagacccgat	240
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614

<210> 2753

<211> 592

<212> DNA

<213> Homo sapiens

<400> 2753

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attaccaaat cacaggcctc ggcttcctga aaganttggt ccnaaaaaca aaccccaact 480
caaccggtac ctgacncnct gggctcctgg ctcntcaag cccatctaca aaaaaagccc 540
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<210> 2754

<211> 631

<212> DNA

<213> Homo sapiens

<400> 2754

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gaagcaaaac tcagtatgaa gctgttcaaa gtgaagggtgt tatgattcaa gagtggtata 180
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taacaattca aaaagctttt tgtagaatgg tcacaagaaa actggaaaca cagaaatgtg 300
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 agaaaagagc tgctatcact ttacagcatt attttaggac gtggcaaacc agaaaacagt 420
 ttttactata tagaaaagca gcagtggttt tacaaaatca ctacagagca tttctgtctg 480
 caaaacatca aagacaagtc tatttacaga tcagaagcag tgttatcatt attcaagcta 540
 gaagtaaagg atttatacag aaacggaagt ttcaggaaat taaaaatanc accataaaaa 600
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<210> 2755

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2755

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 cggcacgccc gaccggctgc cgtgccaaaca gctgctccag caggcccagg ctgccattcc 180
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 ctgggganct gatggaaccc naattactgg gggatgaacta catccaaagg ggctccaccg 660
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<210> 2756

<211> 608

<212> DNA

<213> Homo sapiens

<400> 2756

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tctgccaaca gctcctcttc ggcctccgtc acagccacct ggaccctacc ctttcgagac 180
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tgagtctgtc aaagaccttc tttccaatga agacgcagct gatgatgctt ttaagacaag 540
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tccaaaat 608
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<210> 2757

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2757

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ggaatgggat catcctgagc atccaaatgg gatcatgatt ggatacactc tcaaataatgt 180
ggcctttaac gggaccaaaag taggaaagca gatagtggaa aacttctctc ccaatcagac 240
caagttcacg gtgcaaagaa cggaccccggt gtcacgtac cgctttaccc tcagcgccag 300
gacgcaggtg ggctctgggg aagccgtcac agaggagtca ccagcacccc cgaatgaggc 360
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 ggtggcgaaa ggttcatttc aatgaaaaag ggtccttcat cggccaatta cncggtccaa 720
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<210> 2758

<211> 697

<212> DNA

<213> Homo sapiens

<400> 2758

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 cacatcggct ggagctgagc cgcacctgcg agttgcatct gggatctcca gttcaccggc 180
 ccctaagctc ctgagggttg gcctgaccct gaggttgcct gtcaatcacc atttcttccc 240
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<210> 2759

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2759

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gcctcaagcc tctcgaantt acttggggaa ttaacaggcc atgcgttcan ccactcccaa  720
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<210> 2760

<211> 412

<212> DNA

<213> Homo sapiens

<400> 2760

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tccaagactg ctgtgtaagg ggaggagata aatgaggaca cagacaact attaactccc  120
atattctggg aagtgacgtg tatcatttct actcgttggc cagaaatggt cagctggccc  180
taaggtaatg cagaaagatt tggaaaatta ggggagtaaa tgaaatattt ggaacncttt  240
caatccnagc agttcttaat gtttccccca ctatcatgct agcccatgcc accacctttg  300

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cctgaaatac tgcaagtatc ctaattaatc ttcctnatcc taatcatgct ccaatatgat 360
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<210> 2761

<211> 769

<212> DNA

<213> Homo sapiens

<400> 2761

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<210> 2762

<211> 649

<212> DNA

<213> Homo sapiens

<400> 2762

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ccatcagcat gtatatacat ttcctaggaa atttgatctt tcttgtcatt cttttttggt 180
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gccaaaagtc acagctagtg agtggtttag gcaagataca aaccctagtt agttaatcct 600
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<210> 2763

<211> 745

<212> DNA

<213> Homo sapiens

<400> 2763

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agatgaaatc cagcgggtga ctaatataaa aacttctgcc aaaatcaagt cttttgactt 180
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tgaaagatga aaaattnttc ccnaaaaaa aactttctgt ttaagccaan ccccaacttt 720
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<210> 2764

<211> 770

<212> DNA

<213> Homo sapiens

<400> 2764

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<210> 2765

<211> 578

<212> DNA

<213> Homo sapiens

<400> 2765

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<210> 2766

<211> 783

<212> DNA

<213> Homo sapiens

<400> 2766

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<210> 2767

<211> 685

<212> DNA

<213> Homo sapiens

<400> 2767

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aagttaaatc ctgaanctgt tagaagtcag tgggccaatc tttcatggga attactttat 660
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<210> 2768

<211> 817

<212> DNA

<213> Homo sapiens

<400> 2768

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 gaaggccctg gaagangcac tgcttgtctt taacccaatg agccaggatc tcagtgccac 240
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 aactgccatg cggttgcctg caggctgggc cacactgctt cccatgccgc tatctggcag 480
 actggccaaa gcatccacac cagcccttgc caagcatgct accaccaacc tgctgctgan 540
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 cttttatcca agtgtctacc ctgccatgcc ggctctctgt tgttcttgaa ggnccctggtt 660
 ccacttaaaa atcccctgcc ctgcttgggt ncccaacaca aagggacaat cnetgcaact 720
 ctcaactngc aaaatctcct ccnaaaactg cggaaaaatt cnaggggaaa ggttcccggg 780
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<210> 2769

<211> 533

<212> DNA

<213> Homo sapiens

<400> 2769

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 ggggcccggg ccatggatgt gcgccgtctg aaggtgaacg aacttcgcga ggagctgcan 180
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 cccgggcaca tcaacgagga ggtcgagacc gaggggggct ccgagctgga ggggaccgcg 360
 canccaccgc cggccgggct gcagccgcac gcggagcccg gcggctactc ngggccggac 420
 ggacattatg ccatggacaa tattaccang canaaccaat tctacgatac ccaagtcac 480
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<210> 2770

<211> 609

<212> DNA

<213> Homo sapiens

<400> 2770

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aagacgcagt cttcagcaag ggaagtgctg ggaacgccct ggagtgaacc caggaagatg   60
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actgctgtga acggcctgcg gagcaccacg tgcgacggct ggaggcgaaa ggtctgcctt 180
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ccacagcccc agggctgcag ctgagggggt cgccactctg gctgggcgag gctgggccct 420
tgggggcagg cgccagaatg gcctcaggct ctacaagatg cctgaaaaca ccaacctctc 480
cagggtcac tagcattgga cgctttcacg ctctgccctg ggccggaagc cccctcaccc 540
cgcgcgatgt gcaaactcct tgcanggctc actcanttcc canaacttta attattggaa 600
agttctccc                                     609
    
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<210> 2771

<211> 622

<212> DNA

<213> Homo sapiens

<400> 2771

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ggagacaccg gaaggagccg cggctgctgc gggaagtggc cagttcagga ggccgacccc   60
ccgagggcag cgctgcgggg ccgttttccg gccctcctga cgcgacactg cccctctccg 120
agagctgaga aggaaaaanag gagcttgcgg aggtgcggct gcaggccgtt gttggtcgag 180
ctggcgggtc ccgcgggcca ggccgtggag agctcctgaa ggaagcacta aacatggaaa 240
    
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ggaacaaccg gtaccagcca ctgcaaaaac atgccaaatt gtaaagacca tcgatgttag 300
 gaanaaactg cctcaactaa tgagcaaaat aaccagctaa catcgtaatg acaggatcaa 360
 attcacacat aacgatatta accttaaagg tgttacctca ttttgaaagt cttgggaaac 420
 aggaaaaaat tcctaacaaa atgtcagctt ttcnaaatca ttgtccacat ttggattcag 480
 ttggtgaaat aacaaaagaa gatttgatac naaaatccct tgggtactgt caggattgta 540
 aantccaagg accaaatctt tgggcatgtc tggaaaaata aatgttcata tnttggctgt 600
 ggtgaatcnc aattnaatcn ca 622

<210> 2772

<211> 420

<212> DNA

<213> Homo sapiens

<400> 2772

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 gaaaatgctg accattggag gtgccaaca gtagaatggg ctactgtgag gggtagttag 180
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 ggcacttcta tacctgtggg acattggact ggatgagccc tgagccagct tccactccta 300
 cctgaataga aaactcactg caccnccca caacacntga taaacacatg tcctcactga 360
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<210> 2773

<211> 499

<212> DNA

<213> Homo sapiens

<400> 2773

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ttgagccaga tctccatatt gaggacctga ggaaatccct tggaacaaac cagaccaaag 120
 aggtgtcttc ttctctctcc cagagcaagg aggacttata cttggacagc ctgtcctccc 180
 acaatgtctg gcacctcttc tctgctgagg gggtagccct ccgtagtgcc aaggagtcc 240
 ttgtgcggca gacacgtcc atgcggaggc ggcagacagc tctgaaagct gcccagcagc 300
 attggcgcca tgagctggcc agtgcgcagg aggtggccaa agaccaccca ggcatcaagg 360
 ccctggaaga tatgcgcaag aacctggaga aggagaccag gcacctggat ganatgaant 420
 cngccatgcg gaaaggccac aacctgctga anaagaaaga ngagaagctg aatcagttgg 480
 agtcctctct ttggaaga 499

<210> 2774

<211> 668

<212> DNA

<213> Homo sapiens

<400> 2774

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 ttccggtagg agactttctg gatggggaag atttccagga attggcaaca agctcatttc 180
 actggtgggt ttgctgaagc attatcacia gacagtcaga atgactgatg agtgctcttc 240
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 gtatatgatt aacggatgga agtgcaggac tccaagattt acttcttcc ctttccagca 360
 gaattacctg agacgagtaa aatctactgg cggagtcact ccattattct tatctgtgga 420
 gatctagatc ttgatttgaa agtttctgag aaaatcttca gctcagactt gagggccaac 480
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 gatttaaaat gtgtgccttc ttttccgtca ccaagtcac cctgggttnc tactggaaca 600
 tccttctcaa tccccccga cccatggatg gctgttctcc attgtctgtt tcnccanatg 660
 tcctccnn 668

<210> 2775

<211> 810

<212> DNA

<213> Homo sapiens

<400> 2775

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gaaggaagcg gtggctgctg cggatgtcgg tgtgagcgag cggcgcctga acacacggcg   60
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cccgctacgg tggccctgcg cccgttgcta ctgaggcggc gtgctctgca ttcttcgctg  180
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tgcctgagtc atcgccgccg ccgccgccac agccatggcc ganagtgggt aaagcggcgg  300
tcctccgggc tcccaggata gcgccgccgg agccgaaggt gctggcgccc ccgcggccgc  360
tgcctccgcg gancccaaaa tcatgaaagt caccgtgaag accccgaagg aaaaggagga  420
attgccgtg cccgaaaata gctccgtcca gcagttaag gaagaaatct ctaaacgttt  480
taaatacat actgaccaac ttgtgttgat atttgctgga aaaattttga aagatcaaga  540
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aaacaggcct caggatcatt canctcanca acaaataca gctggaaaca atgttactta  660
cntcatccaa ctctaatat taactctaca tctggttcct gctactaaca accctttttg  720
gtttaagttg gccttggggg gactttgcaa ggtctnaatt ancttggggg ttgaaatact  780
aaccaanctt tctctnaaat taacnaaatt                                     810

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<210> 2776

<211> 813

<212> DNA

<213> Homo sapiens

<400> 2776

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ggttttagaa agtagcatta gtattgcagc tagccacaat aatttagttg aaatttaaatt   60
cacaatattt agcccctcta aaaatgcaat acttacatcc ctatatataa ctacatatct  120
atattctctc tatatagtat cctgtatgtt atttatccac tatacatctc tatatagcta  180

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atatgctata tattactata tacagtgata atataaatat acacacattt tatgcattat 240
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 gtgtcaccta ccttggcttc caatatcaga gacttctact ccagtgtcca tttttatacc 360
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 atcaccccag gagttttcta ctccctctcc aatttgggca gttccaggag tccatagcac 480
 aggtgtagaa acacttaaca agttaagaaa actgagtaac aaaaatattg ctatttgatg 540
 aactgttgaa gatgagaatg aaagttttct tcttgtaaga ttgattcaag tgtgccccaa 600
 gttcctangg gaaaaaaaaac ttaatatanc tacactntgg atgggtggaa cnatggaaga 660
 agaaaaaaaaa ctcnnggcag attttatggg atgccattaa taagaaatgt tgaaaaaaaaa 720
 agaatccctc aacattttta anttattagt tactaaaatt taaatttggg gccctaaaaa 780
 tcctggtttt tttccccgga aaaacttgga ann 813

<210> 2777

<211> 511

<212> DNA

<213> Homo sapiens

<400> 2777

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 gtgatgagtt tccgggtgtc tgagctccag gtgcttcttg gctttgctgg ccggaacaag 180
 agtggacgga agcacgagc cctggccaag gctctgcacc tcctgaagtc cagctgtgcc 240
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 ggtcctctan ctcccatcc cccaacgctg ttggcccctg ggcaccctgc tgggccccaa 420
 gcgtgaggtg gacatgcacc cccctctgcc ccancctgtg caccctgatn tcnccatgaa 480
 accattgccc ttctatgaan tctatgggga n 511

<210> 2778

<211> 577

<212> DNA

<213> Homo sapiens

<400> 2778

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cagctgtggc cggagagcac aaagaatgaa ccagcagtgg aagagaaaat actgtaagct  120
ggctgactgc tggatgaanaa aatgctttat ttttgtggca ggcatctgtg ggatctgtaa  180
tagaaatgat ggctggctgt ggtgaaattg atcattcaat aaacatgctt cctacaaaca  240
ggaaagcgaa cgagtcctgt tctaatactg caccttcttt aaccgtccct gaatgtgcca  300
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tatgtgtaaa aggagcttca tggcttggaa agcgggtgtgc tctttgtcga caagaaattc  420
ccgaggattt ccttgacaag ccaaccttgt tgtcnccaga agaactcaag gcagcaagta  480
gaggaaatgg tgaatatgca tggattatg aaangaagaa atgggtgggtg gcagtagcat  540
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<210> 2779

<211> 400

<212> DNA

<213> Homo sapiens

<400> 2779

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atttacacaa gtattgttga gggagtgatt tttcttgat atgcgtctgt tttcatttat   60
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tagctaataa tgttctctgt ttatttctca tgaattccca ttttgtggct aaagaccaga  180
cctttgcact attcatcaa gattatttta ttgaggtttg gcttacatat agtagaggca  240
atacatatga gatacgcaac tttgtttttg cagctacaat gcactttctc gatctcatat  300
gtttttgtct tgtatagacn gacacaagtt cancatgttg canattggga atagttagct  360
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```


<210> 2780

<211> 823

<212> DNA

<213> Homo sapiens

<400> 2780

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tgataatfff ggaagtgagc atcctggatc aaagcaagaa tttctgagtc tcttaatgca 180
acatcttgag aactcatcat tgtttgaagg gtccttgta aagaacttgt ctctaaattc 240
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accagaaaat acccagccaa ttttagatga tgtttcagac tttgatgtgg cacagattat 420
aatcaggata aatactgcaa caactgtagc tgacttaaag tcaataataa atgaatgcta 480
taactacctt gagttaattg gatgtctcag acttataacg acattaagtg ataaatatat 540
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gttttaagca nggtctgaaa acccttggtg ttttgagaaa aattcaggct tatccanaaa 660
cattttgtag catcctgtgt cataaanctg aaantctttc tgccaaaatc cttagtgagc 720
ttttttacag tacacacatt acctgatgtt aaaactttgg gggtttggaa canttacttt 780
cnggctgttg aaaaatggtn aatctncnc aacaatggga aaa 823

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<210> 2781

<211> 650

<212> DNA

<213> Homo sapiens

<400> 2781

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 ggaagacctg aagaagctag aaccaatcct aaagaatatt cttacatata ataaagaatt 480
 cccatttgat gttcagcctg tccattaag aagaattttg gcacctggtg aagaagagaa 540
 tttgggattt gaagaagatg aagaagaagg tggctgctga gcagggtctc ctgattcttt 600
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<210> 2782

<211> 627

<212> DNA

<213> Homo sapiens

<400> 2782

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 ctgagaggga cacgcagtga cgagcggccg aagcagcttt gcggtgagag cacgctgggc 180
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 atgggccccg tatatcagca nttcatatca gccatcatca cccaacagcg gtgcagcccc 540
 acggangcca ngtggtccag aatcatgctc atccagcccc accagttgca ccagtgcang 600
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<210> 2783

<211> 648

<212> DNA

<213> Homo sapiens

<400> 2783

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cggagtcctg gccctcccc accgccgcct cggagctcag cacaccttgg atgggggang 180
cgggcagctc ctanccccgc accccaggag gcgcgctcgg agggaagccg ccaccgcgcc 240
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ctgcctctct aaccttgac gactcctcgc acaagcaang gcaanaangt gattattcgg 600
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<210> 2784

<211> 462

<212> DNA

<213> Homo sapiens

<400> 2784

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cgggacgcgg ggactgggag caggctgcaa gctgggtggg ttggggagga acgagagccc 240
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gcacgtcccc ccttccctcc cgcagggagc ggacntggac tacgactcgt accatcacta 360
 tttcnacgac tatgactgcg gggaggattt ctaccgctcc acggcgccca ncgaggacat 420
 ctggaacaaa ttcgagctgg tncatcgcc cccacgtct cc 462

<210> 2785

<211> 713

<212> DNA

<213> Homo sapiens

<400> 2785

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 aatgttgctc ggtattttgg aaagaaaaga gaagaagatg ggcacactca tcagtggaca 180
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 gaaagacctg taacctgta tcatttgcta aagctgtttc aatcagacac caatgcaatg 420
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 aaaaacaagc tttganattg cagaacttaa ggganagatt aaaaaccaan ttcgtgaaac 660
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<210> 2786

<211> 576

<212> DNA

<213> Homo sapiens

<400> 2786

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 gtgatcgaaa agatggcctc cccaaaggac atcatgtnac agactctgag aacgatgagc 480
 ccttaaattct taatgctagt gactctgaaa gtgagganct tcacaggcaa aaggacancg 540
 actctgaatc tgaagaacnt gcanaacctc ctgcna 576

<210> 2787

<211> 591

<212> DNA

<213> Homo sapiens

<400> 2787

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 cagaagcaaa ggtagatgga gagactgcat cggacagtga gagccgggca gaatccgcac 180
 ccctgccagt ctctgcagat gataccccgg aggtcctcaa tagggccctt tccaacttgt 240
 cttcaagatg gaanaactgg tgggtgagag gcacctgac tttggccatg attgcatttt 300
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 ttaagtgttt ccatgaaata atcnctattg gctacaacgt ctaccactca tntgatctgc 420
 cctggttcag gacgtcanc tgggtactttc tcctgtgtgt aaactatttc ttctatggtg 480
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<210> 2788

<211> 764

<212> DNA

<213> Homo sapiens

<400> 2788

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aaagatattt cattgtgaaa gaagaaacta aactatcagg cctctttttac aaaatgagag 180
attgaattta agcttgtcaa gcacgtactg gaaggtatga attacactac catgtgtttt 240
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taaaaaatga ctgctgttgg gggccagggg acatcatggg gaagtggggc tgtccaattt 660
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<210> 2789

<211> 721

<212> DNA

<213> Homo sapiens

<400> 2789

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gactcgtggc ctttgggcta gaagccatgg acgccttcac ccgcttcacc aaccagaccc 180
agggccggga ccgactcttc agagccactc agtacacatg catgttgctt agatatttgt 240
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tagagcccaa agctggcaaa gagaaggtag taatgaagct caagaaactg gaggccagtg 300
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 cagggcaaag aaagagaatc agcatcccag atccttggtc acntggtag agaacaaatg 660
 gtccatcttc tctcttttcc attctaacac tctcctgtct gacctgaaa cttgtnattc 720
 t 721

<210> 2790

<211> 619

<212> DNA

<213> Homo sapiens

<400> 2790

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 aagccagctc caccctggcg aggcctgac ctgagcgac ccaagcccag gacgatgcct 180
 gttgcgttct tctccccag tagcaagtca cctccccag cagcctccat gttgtctggg 240
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 gctgccttct ctcttggaac atgctgcttc cacaggcgag tgccagtgtc tccgtgtgaa 360
 ttcattgatt gtggcctgag tgaattcctg ggtttgctgt tccagatgat tctgcagggc 420
 ttcaaaacca gcaaggccct gagcaaagct gctccttctt ctcatgggct gaactcatcg 480
 tgatgtcact ggctaagggg ggcanatgg ggtccagccc ggcccangca catggaactg 540
 cggctctgtc angctgaatg tgggtgtttgc cttctaagat nggccccaaag gcaccanttc 600
 ccaaaaaagg tctgtcncc 619

<210> 2791

<211> 551

<212> DNA

<213> Homo sapiens

<400> 2791

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tttgatgatg cccaacagga ggaccggaag agactggcgg agctgctggt ctccgtcctg   60
gaacaggggt tgccaccctc ccaccgtgtc atctggctgc agagtgtccg aatcctgtcc  120
cgggaccgca actgcctgga cccgttcacc agccgccaga gcctgcaggc actagcctgc  180
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cgcaccgatg tgcgccagca gctgtttcag ganc tgaan gaatgcgcct gctaactgac  480
acactgganc tgacctgggg gtgactcctg aanggaaccc ccaccacgt ccttccttcc  540
caanaaactg a                                     551

```

<210> 2792

<211> 697

<212> DNA

<213> Homo sapiens

<400> 2792

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atcgctgcgg ttgcgagcgc tgtaaggagc ctgtgctgtg ccgcgcagtt aggcagcagc   60
agccgcggga gcagtagccg ccgtgggagg gagccatgaa gcattacgag gtggagattc  120
tggacgcaaa gacaaggagg aagctgtgtt tcttgacaa ggtggagccc cacgccacca  180
ttgcggagat caagaacctc ttcactaaga cccatccgca gtggtacccc gcccgccagt  240
ccctccgcct ggaccccaag ggcaagtccc tgaaggatga ggatgttctg cagaagctgc  300
ccgtgggcac cacggccaca ctgtacttcc gggacctggg ggcccagatc agctgggtga  360
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tgcccttcat ctatggccgc aaatatgact ttacgtccag tcggcataca gtggtgcacc 480
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 accgcttctc ccatggcact atgcctttgc gcaacatctt caagaactgc acctactact 600
 ggggcttccc cgcgtggatg gcctattaca tcaatcacct ctctacactc cccctancta 660
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<210> 2793

<211> 747

<212> DNA

<213> Homo sapiens

<400> 2793

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 aagccattta tctgaaggct gcatagtggg gagagtcttc agtttacctc attctttgta 180
 gcanccttg attttaacag gtttttgtaa taggtacaga taatcccata cttttctagg 240
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 aaaanctaata atttttgcat ttactttaaa ggggctgttc taaaccccca gctttaattc 660
 ctcccctaaa aaaaaacatt gcagetaacc ctngaacncc cngttttaaa atacantatt 720
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<210> 2794

<211> 645

<212> DNA

<213> Homo sapiens

<400> 2794

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gcggtgccgg gggcggggcg cggcggctgt canctgactg tggcggcggc ggcctcgang 60
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gtcgggtcgg cgagccacgg gggccgccgc agcaccatgg cgaccaccgt cagctggacg 180
cccaggcggc ccagcagctg cagtacggan gcgcantggg caccgtgggc cgactgaaca 240
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gccgactgcg cctgggctac gcggtgtacg aaacgcccac ggcacacaat ggcgccaana 360
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gcagggggac aacaaggaag gcatgatcaa cctcgtcatt tctacncgct gttccanct 600
gccatggtna tgccaccan cccgtgtgcc tgatgccaac aatnt 645
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<210> 2795

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2795

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gcaaaagatt ggcatttggt aagtgttcta tatttagtac taaaatcaca gtcatgaaat 120
catagtcata aaatggtctt cacacagcag tcatccgtgt catttatcat ttgtaatat 180
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gtgtcataaa ataaaatgct gtttactgga tgtttgtttg tataattttg aacactataa 480
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tagcaattca gagacagaca ttgttaaagg tttgatgtat atanaaatc catgtttgat 540
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 taaaaattct aaccaatgtt aaaatgacca ttttncgtgt gcattaaaac ctttacaggt 660
 taatggaaca tgaacttcnc cccatattaa atattttggg cccitttaagg tcnaaataca 720
 natctcctaa aanttanatt ccaaattggaa aaacctattc 760

<210> 2796

<211> 577

<212> DNA

<213> Homo sapiens

<400> 2796

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 ccagtaccca gatcctggat cctagactcc tatgccccaa ccattgggtc atgggatccc 180
 agcaccacaga tcctggatcc tagactccta tgccccaacc actgggtcat gcgatcccca 240
 cccttcagcc actagatccc agatccccct gtaaccataa ctgtggatcc cttacttcag 300
 caactcaagt ctgctaccct aaccacaaga ttcaagatta tccacacccc agcccttaat 360
 ccccatcccc caaatcactg gatcctgcag ccccatatcc taaggatggat cccacgcttc 420
 cctgtgcccc ctactggatc ctggacctct acgtcttaac cactggatcc cacacaaatc 480
 antgaatgga tcccaacacc ccaaccacag gagcacggat tccctgtnc tcaacaccca 540
 naccctgcct ccctcangca ccanatccag tgtccta 577

<210> 2797

<211> 737

<212> DNA

<213> Homo sapiens

<400> 2797

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 gcattggtaa gttgctactc tttgattatg acaagggtga actagccaat atgaatagac 180
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 ggaacattaa tcctgatgtt ctttttgaag tacacaacta taatataacc acagtggaaa 300
 actttcaaca tttcatggat agaataagta atgggtgggtt agaagaagga aaacctgttg 360
 atctagttct tagctgtgtg gacaattttg aagctcgaat gacaataaat acagcttgta 420
 atgaacttgg acaaacatgg atggaatctg gggtcagtga aaatgcagtt tcagggcata 480
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 actatgggtg tggttgctgg gatcttaata caaaacgtgt taaagtttct gttaaatttt 660
 ggtactgtta ntttttacct tggataccat nccatgccgg aattttttcc cactatntcc 720
 atnaaaccca atccncc 737

<210> 2798

<211> 492

<212> DNA

<213> Homo sapiens

<400> 2798

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 catggctctat agtatagtgt gatatgacta ctgttccaat gtattgaagt gttgggatag 180
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 ctagtttcaa attacattgc agtataatga aaaagatcca tatactgtgg aatgatattc 360
 ttttaaaatt atttgctatg gcttggtaaa aatgtacttt ttccagtagc acatatcaca 420
 agaacctcac tgtanttgaa agccatctnt cntagtagtatt tgtttatccn tttaggagag 480
 tcnagcaaag gt 492

<210> 2799

<211> 816

<212> DNA

<213> Homo sapiens

<400> 2799

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cagccacct cttgcatcgt cacctacagg tatctaagca atggatccaa gccctggagg 60
ttggtgagag ccatgtatta cccctagatg aaattggaca agagaccatg accgtaaccc 120
tcctcgatgc caatcactgt cctggttctg tcatgtttct ctttgaagga tattttggaa 180
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ccctggagtt tcagacctgg gtggtattga gtcctcggcg cctggagttg gtacagctac 480
tgggcctggc agatgtgttc acagtggang agaagctggc cgcattccatg cagtanacca 540
tatggagacc tgccattcca acatgctgcg ttggaaccan acccacccta cgattgctat 600
ccttcccaca aagccgaaaa atccacagct cccaccctga tatccacgtc atcccttact 660
ctgaacattc ctcttactcc gaacttcctg cctttgtccc aacactgaaa ccttgccaag 720
ttggttgccc attgttaatt ccgccgncc ctgttggaag ggtttccang ganagttctg 780
aaaccccang gattctceng tgccccctga aattcc 816

```

<210> 2800

<211> 616

<212> DNA

<213> Homo sapiens

<400> 2800

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gagatcagaa caatggccta gggtcaggcc cagccccagg cccagtggta ttactgaatt 60

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cactgaatgt ggatgcagta tgtgagaagc tgaacaaat agaagggctg gaccagagta 120
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 gttggcagtc acaaactcgc agaaccceaa gtctttcgag tctcaattcc caggattcca 540
 gtattgaaat ttcaaanctt actgataagg tgcaggccga gtatananat gcctatanag 600
 aatacattgc tccnat 616

<210> 2801

<211> 620

<212> DNA

<213> Homo sapiens

<400> 2801

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 ctctgttagc ggctcaggtc cgcagtggag gccacatcaa ctcggcgcct tgggaaccgc 180
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 ngccatgaat attgtggttc ctttcatgtt taaatatgct gtanacagcc tcaaccanat 540
 gtcnggaaac atgctgaacc tgagtgatgc cccaatata ttgcaaccat ggcaacanca 600
 nttctgattg gctatggtgt 620

<210> 2802

<211> 604

<212> DNA

<213> Homo sapiens

<400> 2802

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aagatggcgg accttgattc gcctccgaag ctgtcagggg tgcagcagcc gtctgagggg   60
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caggagctgg aggctgtata cgaacggctc tgcggcgagg agaaagtggg ggagagagag  180
ctggatgctc ttttgaaca gcaaacacc attgaaagta agatggtcac tctccaccga  240
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aaccgcctct atcangccat tcagagagct gatgacatct tggacctgaa nttctgcatg  420
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ccgctacttg tgcctggaca agtcggtcat tgaactcagc cgacagggcc aaggggggan  540
catgattgat gccnacctga aattgctgcn ggaagctgan caacgtctca aanccattgt  600
ggca                                                                    604

```

<210> 2803

<211> 653

<212> DNA

<213> Homo sapiens

<400> 2803

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ctccgagcag gacactgcta cttaacaagg tggtttgagc caaactgtgg cacgtttcag   60
gcaggattcc tccttcattc aaactgcac acccaggant ctgcaaattc cccaaagtag  120
gaggaaaaat gaccacattc aaggaggcag tgaccttcaa ggatgtggct gtggtcttca  180
ctgagganga gctggggctg ctggaccctg cccagaggaa gctgtaccga gatgtgatgc  240
tggagaactt caggaaactg ctctcagtgg ggcatcaacc gtccaccaaa gatacttgcc  300

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acttcctaag ggaagaaaag ttttggatga tggggacagc aacccaaaga gaagggaatt 360
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 taccacaat tcatacaggg acanaaacct tcccagggtt ggggaagtgt aaacagtcct 600
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<210> 2804

<211> 761

<212> DNA

<213> Homo sapiens

<400> 2804

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 aagtacatag agctctttat agtaaaggta ttctattgat ggcagcctca gaaaatgagg 180
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 cccgttccca atggtantcc caacccaaath cennctttt t 761

<210> 2805

<211> 667

<212> DNA

<213> Homo sapiens

<400> 2805

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gggtcggcct ccagcccctg tgcccgggat ccgctcgccg cggatgancg agagtttctt  180
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gaaatcatga agaaatgttt tagttattga aactacagtt gaaatcatgg atacatcaac  420
aaatctggat attggagccc ancttatcgt ggaagaatgt cccagcactt atagcctaac  480
tggcatgcca gacattaaaa tagaacatcc actggacca aattcanaan aanggtcagc  540
tcanggtgtt gccatgggaa tgaaattcat attgcctaac cgatttgata tgaatgtgtg  600
ttctcnattt gttgaaatcc ttaaataaan aaaatantaa aaatattcna gatcaggtta  660
actctna                                           667

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<210> 2806

<211> 617

<212> DNA

<213> Homo sapiens

<400> 2806

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tgtgctcggt ggcccagggtg ttcacacctg gcttgccctc ccgcatcgcc tcagtgtggt   60
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ctgcagttgg ctttttgcta ccaccagttt tagtacc aa cacacagaat gacacaaatc  180
tcctggcttg taatatcagc accatgtttt atggaacatc agctgttgcc acacttttat  240
ttattttaac agcaattgcc ttcaaagaaa aacctcggt tccaccaagt cnggctcaag  300
cagctcttca agacagtccc cctnaanagt actcctataa gaaatcaata agaaacctgt  360

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ttaaaaaacat tccttttgtc cttctgttga tcacttatgg tatcatgact ggtgcctttt 420
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 gcttatggct ggattatact aaaacataca aacagactac tctnatagtt tatattttgt 600
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<210> 2807

<211> 670

<212> DNA

<213> Homo sapiens

<400> 2807

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 tttaaagaaa attatctcct atgtctcttt gaactcagga atagaaaatg accaagaagc 600
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<210> 2808

<211> 772

<212> DNA

<213> Homo sapiens

<400> 2808

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<210> 2809

<211> 638

<212> DNA

<213> Homo sapiens

<400> 2809

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tgcatttcaa agaatcactg accctggagg atgtggctgt ggagttcact tgggangagt 420

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ggcagctcct cggccctgct cagaaagacc tgtaccgaga cgtgatgttg gagaactata 480
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<210> 2810

<211> 646

<212> DNA

<213> Homo sapiens

<400> 2810

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<210> 2811

<211> 422

<212> DNA

<213> Homo sapiens

<400> 2811

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 gaagcacaag gaaaaattga tgttcttcaa nctgaagtag ctgcattgaa gacacttgta 360
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<210> 2812

<211> 517

<212> DNA

<213> Homo sapiens

<400> 2812

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<210> 2813

<211> 567

<212> DNA

<213> Homo sapiens

<400> 2813

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<210> 2814

<211> 729

<212> DNA

<213> Homo sapiens

<400> 2814

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ggaatgatta cagtccecaa acttttgtct atgaatcatc tgtctgatct cctccaancc 660
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ttgtctcca 729

<210> 2815

<211> 667

<212> DNA

<213> Homo sapiens

<400> 2815

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cccctcn 667

<210> 2816

<211> 796

<212> DNA

<213> Homo sapiens

<400> 2816

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<210> 2817

<211> 546

<212> DNA

<213> Homo sapiens

<400> 2817

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caaccn 546

<210> 2818

<211> 488

<212> DNA

<213> Homo sapiens

<400> 2818

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<210> 2819

<211> 639

<212> DNA

<213> Homo sapiens

<400> 2819

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cacggtgcgg tcaatatgcc accattccca taagcgttg gtggcatgtt tccagggccca 240

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<210> 2820

<211> 633

<212> DNA

<213> Homo sapiens

<400> 2820

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<210> 2821

<211> 457

<212> DNA

<213> Homo sapiens

<400> 2821

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atacagaaga cattgataga ccagnaaaat ttatgacttt caaagaaaag agaaaatctc 420
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<210> 2822

<211> 689

<212> DNA

<213> Homo sapiens

<400> 2822

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catccagaaa atctctaaan antangggc

689

<210> 2823

<211> 672

<212> DNA

<213> Homo sapiens

<400> 2823

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ctatgcatg ga 672

<210> 2824

<211> 681

<212> DNA

<213> Homo sapiens

<400> 2824

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 aatagcatct gttagccagc cacggtggct catgcctgta atcccancac gtggggaggc 480
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 ancaactcag ggaggcccta cctcccacct cagtaggana aatggtgntg aaccccgggg 660
 aggcggganc ttggcantgg a 681

<210> 2825

<211> 406

<212> DNA

<213> Homo sapiens

<400> 2825

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<210> 2826

<211> 611

<212> DNA

<213> Homo sapiens

<400> 2826

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<210> 2827

<211> 598

<212> DNA

<213> Homo sapiens

<400> 2827

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aaattacgct tctccgcaca aanacttant ttattccttc tttttgcaat ttgctccn 598

<210> 2828

<211> 724

<212> DNA

<213> Homo sapiens

<400> 2828

ggtttgccta tccagtatgt actcttcttc cttgctaaca gaatcttgaa tttgcttgag 60
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 gtccattggc caataaacta gatcaaaagc tacttcatgg aaagctgttt tttccttgat 180
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 ttttctcttg tccagattgt gattcagtgt caaagtgggg cagtcattcg taagtgtga 300
 gcattgtgga gcaggagggg aaaggggcct gttctctcaa ggaccttcac tatccattca 360
 tttcctaccc ccagactctt gttagattgg gctgatccaa actcataata tgaatagatg 420
 gacattgacc aaagagacca gcagcagaac aaaagcataa acaaacatga gagtangcta 480
 attttaccac cctgaggtca aaaagtcttc atgagatctg gtcgtttgaa ancatgtacc 540
 acttccctct tcgtcactc tctccctccc gctccaccat gttgaagatt gtgcctgttt 600
 ctccttcacc ttctgcatg attgtaaatt tcctgaagcc tccccancca tgcctccttg 660
 tacaganact gtggaactga agccccctana acctggaaaa acatgtncat ttactttttt 720
 ngcc 724

<210> 2829

<211> 486

<212> DNA

<213> Homo sapiens

<400> 2829

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 caagtcaaag cctgcatttc atacaggcaa tgtagggta ncccccaagc catgattcgg 180
 aaagataaat tgacccana aggaataggg ctgggtccct tctcccttga cagctccctt 240
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 cagttttccc tcttcttctc cctgggtgggc tactangaaa ggtctanggg ganganggac 360
 ctgaaattcc aaaaatataa atgtggaaag actggaaggg gtcgangaat ctctttgcct 420
 gccttactct ggccccanct ctcctttccc ttgcatgtt tgaccatctg ggtnatnaag 480
 aaggtn 486

<210> 2830

<211> 267

<212> DNA

<213> Homo sapiens

<400> 2830

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 cgggtgccctg gggctctccc aagaccttgt nccgcgcgg tttccttggg ctggctttgg 180
 acgacncttt ccccttcctg ctgcctaaga tccgccgaca ttaatccnt cctagtggtc 240
 cacggcggcg gaaccgggtcc cntctcc 267

<210> 2831

<211> 385

<212> DNA

<213> Homo sapiens

<400> 2831

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ctacactata tttacagct gcggcggaaa aggcagggaa gcagccacgg tggcggctct 180
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 gcggtgagcg aagtcacat gccagcttcc caaaaccggg cccgtgcccg ggaccgcaac 300
 aacgtcctca accgggctga attcctgtcc ctgaaccncc cccccaaggg gggcccngaa 360
 ccccccanct cgggcagaaa gcctc 385

<210> 2832

<211> 484

<212> DNA

<213> Homo sapiens

<400> 2832

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 tcggaaatgt gtggacacat acaagtacat tttcatcttc tctgtggcca acatgaggaa 180
 cagcaagctg aaggacatcc ggaacgcctg gaagcacagc cggatgttct ttggcaaaaa 240
 caaggtgatg atggtggcct tgggtcggag cccatctnat gaatacaaag acaacctgca 300
 ccangtcagc aaaagggtga ggggtgaggt ggggtctcctg ttcaccaacc gcacaaagga 360
 agangtgaat gagtggttca cgaaatacac agaaatggac tacgcccgan ctggtnacaa 420
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 ancc 484

<210> 2833

<211> 540

<212> DNA

<213> Homo sapiens

<400> 2833

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 cttttgttga ctcccggttg gccctcgtgg gagcctgttt tggctgcagc ggtgtctggg 180
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 caatggaaac aggaggggggt cntcngttca ganagtggat ctttcctaca attgctgctg 300
 gaagggaact atgaagccat attcttaaata tcaatgactc aaaatatatt taattcaaca 360
 acaaccgctn aagaaaagat tgatagctac ctggagaagc aggtagtaac attcctggat 420
 tactcaacag atttggacac aacggaaaga caacagtga tatttctact tgggtgtgagc 480
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<210> 2834

<211> 546

<212> DNA

<213> Homo sapiens

<400> 2834

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 ccaatcttcc tgttgaanc aaagaagtca ttctgcccac caaggtggtt ggagggccaa 180
 cagttcacat ctgtctccaa gccaaaggta ccattccaac catgactctc tctcgtggaa 240
 aagtggactt tgccacaatt cagtgtggac agtgcctggt ggaaactatt cagctttcca 300
 atcatctcca agtcccttgt gaatgggttcg tccagagcca aaagcctggt gacaagctgg 360
 agaaacacat gccgaagtac ttaagacaga aactacgcgc tgaattaaag ccaaagacac 420
 ggatcttcga aatccanccc atttctggag tcttgatcc tgggtgagaaa tccnacgtgc 480
 aagtnaaatt catgccaaaa naaaaaaaat tctacagccc aaccctggtg tttcanattg 540
 cccana 546

<210> 2835

<211> 458

<212> DNA

<213> Homo sapiens

<400> 2835

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gcgcattgcnc gcgcccgggc ggcgcgggat ctgggtctgg ggatgtggta ccggctgctg 60
gcggcgggccg gcaatanaac ggtggccagg ccgctggcct tgctgtggcg atgtggtggc 120
ccaggangcg gcaggacggc caanaccagc gcgagggccc tgggcaaggc ccgacagtgg 180
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gacgttattt tcctggtggc tgtgttcaaa accacccaaa gggtttgaga aatactttaa 360
gangagtgga aggaacacaa actgagaaac atcnacagca ccaaaaaaag agactggtga 420
actaganaat gctgantctg gaaganacgg aggccgga 458
```

<210> 2836

<211> 634

<212> DNA

<213> Homo sapiens

<400> 2836

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ggataaaanc ctaagagttt gggaatggga tatccctgtg gatttcaagt acatagcaga 60
accagtatg cactcaatgc ctgcagtgc tttgtctcca aatggaaaat ggctagcatg 120
ccaatcaatg gacaacaaa tcttaatttt tggagcacag aacagattta gattaaataa 180
gaaaaaaatt tttaagggcc atatggtagc aggctatgct tgtcaggtgg acttttcacc 240
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gaccacaaaa ctctacagtc gatttaaagc tcatgataaa gtgtgtatag gtgcagtgtg 360
gcatcctcat gaaacttcta aggtcataac atgtggttgg gatggtctca ttaaattgtg 420
ggattaatga gattaatcct taaactagct gggatcattt ttgatccatt gtcataatta 480
tatttaatta ttaaattgtat ctgatgataa cttgatttac agataatgtt gatgacattg 540
accctttgtt taaaaaaaga aactgtaaat ttgacataat ttcatttgca acttcatttt 600
gttttttata aatgttattt atacagaaag ttg 634
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<210> 2837

<211> 644

<212> DNA

<213> Homo sapiens

<400> 2837

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ggaggaggcc gcagcagtcg ccgcgcgaac atggcggccg aaatccactc caggccgcag   60
agcagccgcc cgggtgctgct gagcaagatc gaggggcacc aggacgccgt cacggccgcg  120
ctgctcatcc ccaaggagga cggcgtgac acggccagcg aggacagaac catccgggta  180
tggctgaaaa gagacagtgg tcaatactgg ccagcattt accacacaat ggcctctcct  240
tgctctgcta tggcttacca tcatgacagc agacggatat ttgtgggcca ngataatgga  300
gctgtaatgg aatttcacgt ttctgaagat tttataaaaa tgaactttat caagacctac  360
ccngctcatc agaaccgggt gtctgcgatt atcttcagct tggccacaga gtgggtgacg  420
agtaccggcc acgacaagtg tgtgagctgg atntgcacnc ggagcgggaa catgctcggg  480
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ttcgttgggtg attattctgg gcngatcacc ctgcttgaaa cttgaacaga aaacgtgttc  600
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<210> 2838

<211> 539

<212> DNA

<213> Homo sapiens

<400> 2838

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gctttcccag ctagtcgaat cactggtgca cctccggaat ccgaggttcg cattgctctc   60
ggacagagtt ctgcctcccc agtactccca aactcccagt cctgtgcacc aatgaggtcc  120
agctctgagg cttctttcct ganaaaaaaa tttggaagtc cgtgactgtt tcctggagga  180
gctganaana ggaagctcac ttccggcgta gggaggcttt ctgacccgga atggaggagg  240

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cggagganct gctcttggag gggaagaagg cgctgcaact cgcccgcgag ccgcgcctgg 300
gcctggactt angatggaac ctttccggag aaggctgtac gcagggcctc aaanacgtcc 360
cacccgagcc gacccgagac atcctcgctt taaagancct tccccggggc ttggcccttg 420
gcccctcact cgccaaggaa cancgcttgg gggctctggtg tgtcggggac cccctgcagc 480
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<210> 2839

<211> 764

<212> DNA

<213> Homo sapiens

<400> 2839

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tcgggcgaan agcggcttag ggcctcaccg cgacctggct gagcttcagt cattgtctat 120
tcctggaact taccaagana agatcaccca cctgggacat tctctgatga gtttaacagg 180
tctgaaatct ttggatctct cgcgcaactc cttggttagt ctggagggca ttcagtacct 240
gactgcattg gagagtctca atctctacta caactgcac tcctcgtttg cgaagtgtt 300
cggctccacg ccttaaccga gctcgtggat gtggacttcc ggctgaaccc cgtggtgaag 360
gttgagcctg actaccgcct ttttgttgtg cacctgctcc ccaagctcca gcagctggac 420
gatcgccccg tgagagcaag cgagcggaag gcttcccac tgcattttgc atcagaggac 480
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aganccaagt gcaccgaagc cttggccaag caaacctgg tcatggatgc ggatgacgaa 600
gcagtcctga acctcattgg cagaatgcga atggggaact cggcaggncct cccgggaaca 660
cgaacttcac cagaaagggn gtnaggccca atctcgttgg ttcccaaaaa tccaaacttc 720
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<210> 2840

<211> 572

<212> DNA

<213> Homo sapiens

<400> 2840

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ggccccaccc ccggcggcgc agcccccccg cccgcgcgtc cctcgggtcca cctgcagcag 60
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ttgggctttt gctttctggc ggagggatct gcggcggttt aggaggcggc gctgatcctg 180
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ccctcagccc gtcccgccgg acccgctttc ctcaactctc catcttctcc tgccgaccga 360
gatcgccgag gcggcctcag gctccctagc cccttccccg tcccttcccc gccccgtcc 420
ccgccccggg ggccgccgcc acccgctcc caccatggct ctgaagaaaa tccacaanga 480
attgaatgat ctggcacggg accctccanc acagtgttca ncangtcctg ttggaaatga 540
tatgttccat tggcnactac aataatgggg cc 572

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<210> 2841

<211> 592

<212> DNA

<213> Homo sapiens

<400> 2841

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naatccaaag gcattattca ctctagttag aatagaattg ggtggctaaa cagggtgtgt 120
ggtacccaaa anattaaatg ttacatgtcc ttttagtcct tgaccaggtc tagccttggc 180
agaagcaagg gagccactaa gccaaactcc ctgtgcanac agaccatgtt tcaaggctgg 240
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ttttccctct gaagcagctt ttgcttagaa aacagtcctt tcaactctgcc tttcctccta 480
acttctgtg cctcttcatg ttctgtcan gctttttaaa gcaacgaagc tgttganaa 540

```

cttaaatacct tgcaactgaa aaataagcta cttnaaggcg gtagaaatcn nt 592

<210> 2842

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2842

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cagggattag ggaatttttc tgtaaacact tctaaggga atacagccaa aaatggtggc 120
ttgcttctca gtaccaatat gaagtgggta cagttttcaa acctacacgt tgatgttcca 180
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gtgcttgctg ctaaagaact tggtatctct attaaagtac atgaacctcc aaggaaaata 360
gagcgattta ctcttctcca atcagtgcac attacaaga agcacagagt tcagtatgaa 420
atgagaacac tttacagatg tttagagtta gaacatctaa ctggaagcac agcagatgtc 480
tacttggaat atattcagcg aaacttacct gaaggggttg ccatggaagt aacaaagaca 540
caattagaac agttaccaga acacatcaag ggancnatc tgggaaacac tatcngaaga 600
aaaagaagaa agccngtcct aaagcctcag ggaagccatt tttgcctaaa ttgaaatga 660
aggtgggcca aataaattat gtttaantgg aaaatgcttc ccactnaaaa taattganc 720
tgtcctaact gcctcccttg aattcccctt gccncatcc actnaaaggc aggg 774

<210> 2843

<211> 565

<212> DNA

<213> Homo sapiens

<400> 2843

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 gtacttttca tggatcatgg aaggaaagcc aatgctcagg tgtaccaaca ttcgaccagg 180
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 tatgtttaca ggagaattgg cagagagccg tcagacagaa gtagtgatcc gagacattga 480
 cgagagggct atggaattac tgattgactt tgcgntacc tcccagatna cagtagaaga 540
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<210> 2844

<211> 704

<212> DNA

<213> Homo sapiens

<400> 2844

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 gttaaaatat atttttggta aattgtgcca gaanggcatt tgccaaaaaa atttgtgcag 660
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<210> 2845

<211> 505

<212> DNA

<213> Homo sapiens

<400> 2845

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ctgaacttca tacgtacct ctccatttc cgctgcgtgc acagaggggc tgattttgcc  180
aagatgagga ccaccacagt acgcaggctg ctgccagagt cctggggctt cttttgtccc  240
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actccattg atggagctcc ccaccgatca tacagtgagt gctaccctgt cctgctggac  420
ggtgtcatgg ttggctgggt ggataangat cttgctccan gcacgcana ttctcttcgt  480
cattttaagg tgttganaaa naaaa                                     505
    
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<210> 2846

<211> 637

<212> DNA

<213> Homo sapiens

<400> 2846

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gatttttgat gtttttactc aggtgattgg cttgtatagc tgaaatgctg atgaaaagga  180
gttttccctt ctcccttttt cttttctttt ccttntttt ttttttttga natggagtct  240
cgcaactgtt caggggctgg tgtgcagtgg cacagtctcg gctcactgca acctccgcct  300
ctcgggttca agtgatgctc ctgcctcagc ctctgaata gctaggatta caggtgccca  360
ccaccacgcc cagctnattt tttgtatttt tagtaaagat ggggtttcac tatgttgggc  420
    
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agtcctggtct tgaactcctg acctgggtgat cctcctgcct cagcctccca aagtgcctggg 480
 attataggcg tgagccactg cgcccagcct gtcccttttt cttaaagtac ctttttggtg 540
 aggaccatta tnggtttgta ccaggataag gttgtaaagt tnatcataat atnctcttat 600
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<210> 2847

<211> 801

<212> DNA

<213> Homo sapiens

<400> 2847

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 aacataggga ttcaaaaaaa caaaaacaaa agaataggaa taaataaccc ttaattgtat 180
 attggactag ttcagccctt aaacagcttt acctttattt aggaatgtac attttaggta 240
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 ttccaatag ctaaaagtta cataacacta atacttataa cctatcaata tcagatatta 360
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 attaaaacca atgaaaaagc aatttctgaa atgaaattag anataatctt tgtgtcttat 660
 aaaaaagaca ttaataaaaa atctgaaagg ggcngggcgc catnggctca cgcctgttat 720
 ccccaacatt ttnggggaag cccaagggtg ggcggatcat cctaaggcca ggaattccaa 780
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<210> 2848

<211> 506

<212> DNA

<213> Homo sapiens

<400> 2848

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ggacgattaa caagaacaat agccaaggac cacaggacat ctcaactggt tcaaaattga 60
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caagagcaga gctttcaatg gaaattttta acnagtggna tcnagaccct gaagcatttc 180
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aatcnaagca atggctacca ngaggtagaa gtggcctagt caaggcnaat gtggacaagt 300
caaagtnagg tcatggcaac agtttcttgg gatgctcaat gcattttgct tgttgacttt 360
ctggaaggcc caagaacatt tttttttttt ttttgaaatg gagtctcgct ctgtcgccag 420
gctgggagtg nngtggccna tctcagctag cttgcgnagc tctgcctccc aggttcacgc 480
cattncctg cctcagcctt ccgagt 506

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<210> 2849

<211> 590

<212> DNA

<213> Homo sapiens

<400> 2849

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gcagaccacg ttagaacctc ggctcctgga gtagcanaac ctcggcttca atgggaccct 60
catttcataa atgaagaaac tgagattcaa agaggggaac taccgaaggt tacagagcga 120
gttcgtggat ggggaaactg agcctcacat gnttgaattc cagcatataa gcaacagact 180
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ctgacttccg acagtanatg acccttctga ctcacagttc tactgctggg aaatgcctcc 480
agagctgctg cccaccctct ctgcacccct ccaggtcact ggggtgttgaa tcangggaag 540
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<210> 2850

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2850

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gggcagccaa ggctgggtg atcacggccc gcagcctcta cccggcagac tttaacatcc   180
agtattgagat gtacaccatc gagcggaatg cagagcggac cgccaccgcc gggaggctgc   240
tgtacgacat gtttgtgaat ttccanacc agccggtggt gtggagagaa atcagcatta   300
ttacatcagc attaaggaac gattacagga caaacaacc cnatttttaa gaagtttatt   360
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caacacgtta gaaacgatca gaaatgttgc ttctactttt gaggcgcttc cctnaaacgg   480
tggtgcancn tggggttggc ctgggggang cactattana agctgaaact attgaagaac   540
aagaatctcc agtgaactgc tttagaaaat tatttgtttg tgatgtcctt cctctnataa   600
ttaacaacca tgattttcga ttacctgccn atttattgta taaagttctt gaacaaagca   660
gcctgaattt tatatcaatt attgtcctag gtctactcca attagaaaat cncntccag   720
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<210> 2851

<211> 860

<212> DNA

<213> Homo sapiens

<400> 2851

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atcagaagat tctatgggga aacccattta aaaataggat gcattttttt cttttctgca 180
cagggagaaa gtttaagctc tcctcactat gagttttcaa gtataaaaga ctttttcttc 240
cacgattttg agaacaactg aggactcttg tgaccaggac aacaggggaag cttgcagcaa 300
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ccttggcctc gatcctggct ccagctctgg ccttttgttt cccaaanggt tncctttggg 780
aaaacttctt ttttctatg ctgaaattta tngggaaggc aaaaattaat tcccttgata 840
ancnaaacct ttaaacctcc 860

<210> 2852

<211> 542

<212> DNA

<213> Homo sapiens

<400> 2852

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attaccttat taaagctgta tatgactact gggtagagaaa acgtaaaaac tgcngggggc 180
catccctcat tcctcagatn aaacaagaga aaagagatgg ctctaccaac aatgaccctt 240
atgttgcctt tcggagaaga acagagaaaa tgcanactcg aaagaatcgt aagaatgatg 300
aagcctctta tgaaaagatg ttgaaactga gacgagaatt tagtagagcc ntaacaattt 360
tggaatgat taagagaaga gagaaaacca aacgagaatt attgcactta acctagaag 420
ttgtggagaa aagataccat ttgggagact atgggtgtga aatccttaat gaagtttaaa 480
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cc

542

<210> 2853

<211> 628

<212> DNA

<213> Homo sapiens

<400> 2853

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gtcaagatgg cggctgcggc antggcggcg gcggcggcgg cggccgcggc tgcattcttt 60
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cgaggtccga ggcagcggca cggctggactt cgggcctggg ccggggatct ctgcaatgga 180
ggcgagcggg ggcgatccgg gcccagaagc cgaggatttc gagtgcagct ctcactgctc 240
agagctgtcc tggcggcaga acgagcagcg gcgccagggc ctcttctgcg acattaccct 300
gtgcttcggc ggggctggag gccgcgagtt ccggggccac cgctcggtag tggctgccgc 360
caccgantac ttcacgcccc tgctctcggg ccagttttcc gagtcccgtc cgggacgggt 420
ggagatgcgc aagtggagct ccgagccggg gccgaaccc gacacagtgg aagccgtaat 480
cgantncatg tacaccgggc gcatccgcgt cagcacgggc agcgtgcacn aagtgcttgg 540
aattggccga caggttccta ctcattcctt taaaanaatt tgtgganaat ttctcaagaa 600
aaaaacttcn tctctcaaat tgtgtngc 628
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<210> 2854

<211> 816

<212> DNA

<213> Homo sapiens

<400> 2854

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ttttaaaata aaaagagtgt ttttaaaatt cttaattctt taaaatacct ctagaaaagt 60
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acacattaaa tgaacataa tatttttgtg agttttcttg tttaatggaa actatactgt 180
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taattgcatt ttagaaaagg tgaggaagat ggaaatgtat cagctgaagg tgactcagtt 240
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 cttgattggg ccatgttatt gagggatgct tgagtaccat agagaaatcc ttcaacaacg 360
 tgaagagaac ttttaagccaa ttatataacct naattaaaca ttgacaagaa tgtaatttta 420
 acagacaaat tttgtctgtt aatgttacag acaaaaactg ttagagaaag anaacacaat 480
 tgggactttt tattttaaat tgacatactg taaattcttt tgtattgagc atataaatgc 540
 aaccnaaccc agtngtttct aacagttaat ttatgcatgt tttgagtttc naatattaat 600
 ttagtaattc cacaactact tgaatttctt tatcatgaat ctctgcattt ctgtgtcttt 660
 cctgtgccta tcccctattg ttctcccaaa aacctaagtt ncntgaatat anttttctc 720
 attgggtttt ccttgggttg gggatcattt atttttnaat atacccccct ggtccaatat 780
 tccctaatat tccttgaaat ttncnctccn ttnnat 816

<210> 2855

<211> 753

<212> DNA

<213> Homo sapiens

<400> 2855

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 catagagact ctggatattc ctgagccacc acccaattct ggatatgaat gtcagcttcg 120
 tttgcgcctt tccacaggca aagacctcaa gcttgtgggt cgcagcacag acacagtatt 180
 ccacatgaag agacggttgc atgcagcaga gggagtggaa ccaggtagtc agcgggtggt 240
 tttttctggc agacctctca ctgacaaaat gaagttcgaa gagctgaaga tcccaaagga 300
 ctatgttgta caggttatag tgagccaacc tgtgcagaac ccaacaccag tggagaactg 360
 aactgagccc tgttggccag ctcccacatc cctctgctcc tttttatggg tcttgttgtc 420
 atttctact ctgcggcgtg aaatctatct cactgctcta aattccctat gaatggattt 480
 agttctgagg aattaccagt gaaaaattcc atctgtgatg gagaccaacn aaaattatta 540
 aacacaaaga gccaggcttt ganactcatg ttattaccat ttctaatttg aaaggnngtt 600
 tagaaataga ttaccattta ttttagaaca ctccacaact atgttatggc tatatttcag 660

tgacttggac tgtaaataa aacattgcat ccatgaagga cagccccag ccccttttg 720
aaatacngaa atttttttna naaaaatntn tcc 753

<210> 2856

<211> 649

<212> DNA

<213> Homo sapiens

<400> 2856

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cgcagtcagg actcttcccg caaccctcc ggctcccttt cgcacgcct cgaggcggcg 180
gcgccaccg agacagcagc gcaccttccc ccatcccttc cccttatccc ccagcccaa 240
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caggcccaaga tgcgcgcgat gctggaccag ttgatgggca cctcccggga cgganataca 360
actcgtcaac gaatcaaatt cagtgatgac agagtatgca agagtcacct tctcaactgt 420
tgtcctcatg atgtcctttc tggaactaga atggatcttg gagaatgtct gaaagtccat 480
gacctggctt taagagcgga ttatgaaatt gcatccaaag aacaagattt tttctttgaa 540
cttgatgcca tggatcatct gcantcattc attgcanatt gtgatcgtn aacagaaagt 600
ggccnanaaa agattagcag aaactccaga agaaattaat gctgaaatt 649

<210> 2857

<211> 582

<212> DNA

<213> Homo sapiens

<400> 2857

cccagcgcta tctcgcgtc gtgtgcaggc ccggctcggc tcttggtccc cgggtcggag 60
gttaacgcga ggccccggcc tcgggtcccc gactaagccg tgacccggg tgccatnaag 120

cangagggct cggcgcggcg ccgcggcgcg gacaangcga aaccgccgcc cggcggagga 180
 gaacaagaac cccaccgcc gccggcccc caggatgtgg agatgaaaga ggaggcagcg 240
 acnggtggcg ggtcnacggg ggaagcanac ggcaagacng cggcggggtc ggctgaacac 300
 tcccatcgag agctggacac attcaccttg ganggactca aggagcacgt gaaacagcta 360
 naaaaagcgg tttcaggcaa agaaccnaca ttcgtgctgc gggccctgcg gatnctncct 420
 tccacatcac gccgcctcaa ccactatggt ctgtataang ctgtgcangg cttcttctact 480
 tcaaataatg ccactcgana ctttttgctc cccttccttg gaacagccat ggacacanaa 540
 gctgatttac anttccgtcc ccgcncggga aaantgcgt ca 582

<210> 2858

<211> 464

<212> DNA

<213> Homo sapiens

<400> 2858

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 gcgcagccag aggagccgcc gcagtagctc cccgcctcc cgggctgagg gcggaagaa 180
 aacatgcata tatgattttc ttctgatgaa acctaagttn ttcaagaaaa agaattctgc 240
 tttttggaag gatggaaaaa ttgggaataa ttttttcccc ttgataatt agaccactca 300
 gtactgttgc ttagtttttg gttcagttac tttgatgtgg ttacaanaag aattttggct 360
 gtaatggatt tcatacattt ttaatgtcta atttaatagg gatatanaca gttggtttaa 420
 accaacattt ttggacgaag anangctatg gaaatnaana aaga 464

<210> 2859

<211> 478

<212> DNA

<213> Homo sapiens

<400> 2859

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anagagctac cagctgccct gttggcttcg ctggtcggat cgtccctcctg gccccgccaa 60
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gccgctagcc tatctgagtc gccggcttct gcgctagggg ctcccaccgc ctccgcaggc 180
taaggagccg ctgccaccaa cgagctgtga gggttactat gctccctctt tgccgccgtc 240
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agaagagaag taaaattcaa caaaaattta tgtgtggagt tccttcttaa aagaagaaaa 360
aagtgattat ttagactatg gatcggagca aacggaattc aattgcagga tttcctccac 420
gtgtggagcg tcttgaanan tttgaaggan gtgggtggang agaangaaat gtgagcca 478

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<210> 2860

<211> 762

<212> DNA

<213> Homo sapiens

<400> 2860

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ggaaaaatgt gtgcaaagaa atgatggccc ctgaggacag actctgggcg atcacagtca 60
cctgtgaagg ttttatnaag atgaaatctg atgaaaatgc aagccttcag caaaccataa 120
aacccctgtat caaggttaga gagaaggaaa agccttcctt actgaagctc tttcgggaca 180
acacggccat tccaacctct agtgactcta cgtaggtgta aacttttttg tgggcattca 240
aagaaacact cagcatcctt cccataaata tatttattaa cttctacaag caatctaatt 300
tccttaatta caagcctaatt ttaatttccc ttttaagcctt tttgttaatt ttctttggan 360
atttttcacg tctttcattt atttatttgg agacagagtc tcgctctttt tcatgtcttt 420
aattaattaa ttaatttatt ttgagacgga gtcttactg tgtcactcan gctggantgc 480
agtggcgcaa tcacggctca ctgcaacctc tgcctccan gtccaagtga ttcttctgcc 540
tcagcctctc angtnctgg aattacaggc atgtgccacc acgccccgt aaattttgta 600
tattttttan tagaaacagg gtttcacat attggccagg ctggtctcaa actcctgac 660
tcaggtgatc ccctgcccc gacctcctga aattgttggg attacaggca tgaaccacc 720
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<210> 2861

<211> 690

<212> DNA

<213> Homo sapiens

<400> 2861

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atctaagag gagcgaggtg cgggtgcccc gaagcgctcg cttcccgcgg tgcgatctan 60
tcctgcagta ggcgggcccg ggccacaccg cggccgcccc agccagtgca aggcccaggg 120
gcctgacatc gctcccagcg ctgangacc gaggcctgct gtggangaca ccgtgctccc 180
tcgggacctg ctctggattc cggcccggac gtccccttgg agctctgcat ctccaacctg 240
gaacccaacc cagaagtctc aagtttgacg catcacgtgg cgtgcggatc cactgagggt 300
ccacagagag gggcgcccat ctctgcgtc tcagttatcc tgggtgttggg aattctgtgc 360
cctaaagaat tccgactcac atccgaacgg ggatctggtg gaatcnaggg tgaaagacca 420
gagggacaat gttctactat cccaacgtgc ttcagcgcca caccggctgc tttgccacca 480
tctggctggc ggcgactcgc ggcagccggg ttggtgaaac gcgaatacct gaaggtgaat 540
gtggtgaaaa cctgcgaaga aatcctcant tacgtgctgg tacgaatngc aaccccgcac 600
cccggccttg ccgcgggccc gcttctccct ctatctctca ncccaacttc anatctgtgt 660
gatccgcgtc tnttctccac caatgccntt 690

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<210> 2862

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2862

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gtacgccgat tccatatggg cgccggcgcg gagcgccgcg gggcagcgcg gggtcgccat 60
ggctgagctg cagcagctcc ggggtgcagga ggcgatggag tccatggtga agagtctgga 120
aagagagaac atccggaaga tgcagggtct catgttccgg tgcagcgcca gctgttgtga 180

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ggacagccag gcctccatga agcagggtgca ccagtgcacg gagcgctgcc atgtgcctct 240
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 gtgcaccatg cattgcaatg acaaagccaa agattcaata gatgctggga gtaaggagct 360
 tcagggtgaag cagcagctgg acagtttgtg gaccaagtgt gtggatgacc acatgcacct 420
 catcccaact atgaccaaga agatgaagga agctctctta tcaattggaa aataaaagta 480
 ttgcccagtg gccatcaggc tgaaggcaag aatatatatt ttataaggga attgggaatt 540
 ttagtctttt aagccnagtt tacgaatgaa naaatgaagg atggccccna gcgtaaggca 600
 tatgtccttg ccnctggaca ctggttatatt atgtttcagt ccctaaaaaa atgaaatgga 660
 aaaaaagtgg tgctnaaatc caantcaaaa atattaacng ggaaaatttt taaaanctta 720
 ttantttccc tgtgggccag ttgctttgtt c 751

<210> 2863

<211> 823

<212> DNA

<213> Homo sapiens

<400> 2863

actgcaggct ggggctccgc tccccggcgg gagccccgcg gtggttccca gcgaagtccc 60
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 cgcccgttta ttgaggctt ctaatgtgag gaaaaacacg gaatgacaag tgtgggaaag 180
 agcaagcact aaattactgt cagaaaaata aacggagtan cacagtgtg ctcggtgatt 240
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 tttaaaagcc tccagcagca acttttttct ctcccactgt ccaaaagttn ggttttcccc 540
 ntcccttaaa aaacaaaaca aaaaaacctt tcttcactcc aaattgtccc ctggtgtgtg 600
 gtttttgtct ttctcattac ttcttgcatc ttgctacatg ttctgcattt gctcaaaacc 660
 cctgggttgc taaggaattt gggctctgtg ctctctggg gaaaatttgg taanctgggt 720

acaaggaagt ttaatnaaca aaggctaaaa tgaaaatcat acattaactt cccattatt 780
ttgtnaacat tttctttaac ataccaaaca nantttccaa tnt 823

<210> 2864

<211> 727

<212> DNA

<213> Homo sapiens

<400> 2864

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cgtccccggc gtcgaccccg agccgccgcg gcagccggcg tggaagggcc acccccggcc 120
agacgcctcg gagtgaggat gccaggtcat ctccctctca gagacgtaga ggcgaggatt 180
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agaanggcct gcaagtggat ctgcagctcg acggggcagc ancanaanat atagtggcaa 480
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gcaaagaaaa ctttcagan atttcttcac cgttttattg acccctctgg ctaaagaana 600
anaaaatgtt ggcatagata ttactgaacc tctatactg caacgacttg ggganattaa 660
tgttatttgt ganccatttt ttaaattgtg aacttgttga nccccttcna nttcattttg 720
acaaaaa 727

<210> 2865

<211> 348

<212> DNA

<213> Homo sapiens

<400> 2865

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 ccctccagat gacattggct ccagctttta tcctgaattg ggaagttaca gttctcggga 180
 tccttctgtc atagaaactc acatgagaca aatgcgctca gcttcaattg gtgtactagc 240
 cctctcttgg taccacactg atgtaaatga atgaaaatgg aagaacctac tgataacttg 300
 ggtaccnct atttgggaat aaagctcata aantatanc tgaaggt 348

<210> 2866

<211> 732

<212> DNA

<213> Homo sapiens

<400> 2866

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 tttgacagaa gctgtccctc aaaagcaaac atgcaatana agaaacagat ctcaatggag 120
 tctcactctg tcaccagga tggagtacag tggcgtgatc tcggctcact gcaagctccg 180
 cctcctgggt tcatgccatt ctctgcctt agcctcccga gtagctggga ctacaggcgc 240
 ctgccaccac gcccggctaa tttttgtatt tttagtagag acagggtttc accgcattag 300
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 ggattacagg cgtgagtcac tgtgccacgc caagtttagt attttttgta gagacagagt 420
 ttcaccatgt tggccaggct ggtcttgac tcattggcctc aagtgatcca cctgcctcgg 480
 cctccgaaag tgccgggat tacaggcgta agccactgtg cctggcctta aatgggtaaa 540
 tttcatatgg tatatgaatt atatttcact aaaactttaa gaaaacatta tacagtactg 600
 ttcaaatttt aagtggcca atttaaatgc actattggta tacaantcta tgtaaatgtc 660
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 atattatatg cc 732

<210> 2867

<211> 678

<212> DNA

<213> Homo sapiens

<400> 2867

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gaattttcta gacgaaaacg ttctaaatca gaagacatgg acaatgtaca gtctaaacgt  120
cgtcgatata tggaagaaga atatgaggca gaatttcaag taaagattac agccaaagga  180
gacattaacc agaaacttca aaagggttata cagtgggttc tggaagaaaa attgtgtgcg  240
ctgcagtgtg ctgtatttga taagactttg gcagaattga aaacacgagt ggaaaagatt  300
gaatgtaaca agaggcataa aacagttctc actgaactac aggccaagat agccaggtta  360
accaaacgct ttgaagcagc caaagaaggt ctaagaaaa gacatgaaca tccaccaac   420
ccaccagtat caccaggaaa aactgtaaat gatgtcnaca gcaataatna catgtcttac  480
agaaatgcag gcacagtgag acagatgctg gagtccaaaa gaaatgtnag cgagagtgcg  540
ccacntcct ttcaaactcc tgtgaatata gtatcttcaa ccaatcttgt cnetcctcca  600
gcagttgtca gtagtcaacc taaattgcnn actccagtga cttcgggttc cctccacngc  660
aacgtcngtt cttcctgc                                     678

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<210> 2868

<211> 703

<212> DNA

<213> Homo sapiens

<400> 2868

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atgctgggcg gcgtcagggtg agcgggtggc gctgggcctc aggtaaccat ggagaaagag   60
ctgcggagca ccattctttt caatgcctac aaaaaggaga tatttaccac caacaatggc  120
tacaaatcca tgcagaaaaa acttcggagt aattggaaga ttcagagctt aaaagatgaa  180
atcacatctg agaagttaaa tggagtataa ctgtggatta cagctgggcc aagggaataa  240
tttactgcag ctgagtttga aatcctgaag aaatatcttg aacttggtgg agatgtcttt  300
gtgatgctag gagaagggtg agaatccaga ttgacacca atattaactt tttactagaa  360

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gaatatggaa tcatggttaa taatgatgct gtggttagaa atgtatatca caaatatttc 420
 catcctaaag aagctctagt ttccagtgga gtcttgaaca gggaaattag ccgagctgca 480
 ggaaaggctg tgcctgggat cattgatgan gaaagcagtg gaaacaatgc ccaggctctc 540
 accttttgtt atccttttgg tgccacattg agtgtcatga aaccagcagt ggcggttctg 600
 tctacaggtt ctgtcngctt ccccaactta cagacccatt ttgggcttcc taccactcaa 660
 aaaancnagg tggggaaact gggccgtgct nggttcatgt ccn 703

<210> 2869

<211> 816

<212> DNA

<213> Homo sapiens

<400> 2869

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 tggccctgcg cccgttgcta ctgaggcggc gtgctctgca ttcttcgctg tccaggcctg 180
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 tcccaagata gcgccgccgg agccgaangt gctggcgccc ccgcggccgc tgcctccgcg 360
 gancccaaaa tcnnгааagt caccgtgaag accccgaagg aaaagganga attcgccgtg 420
 cccgaaaata actccgtcca gcantttaag gaagaaatct ctaaacgttt taaatcnent 480
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 cagcatggga attcatgatg agacttactg ttcaccttgt cattaaaacn cnaaacangg 600
 cctcaggatc nttcagctca gcaaacaat acagctggaa gccatgttac tacatcatca 660
 actcctaata gtaactctac atctggttct gctaactagc aacccttttt gggtttaagt 720
 tggccttggg ggggaatttg caaggtctga attancnngg gggttngaaa tactaaccn 780
 ncttcctctg aaatttccga atcccgaatg ccggcg 816

<210> 2870

<211> 717

<212> DNA

<213> Homo sapiens

<400> 2870

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gaggaaataa ttaagcttat taaagacaaa aganaggatg ttagttttcg aaacattggc   60
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gatagaaaag gaccagcaga agtagacact gtggatgcat tccagggtcg gcagaaggat  180
tgtgttattg ttacgtgtgt cagagcaaat agcatccaag gttcaattgg attcctggca  240
agtttgcaga gattgaatgt caccatcaca cgagccaagt acagcctctt catcctcgga  300
catttgagga ccctgatgga aaaccagcat tggaatcagc tgattcagga tgctcagaag  360
cgtggtgcc a ttattaagac ctgtgacaaa aactatagac atgatgcagt gaagattctg  420
aaactcaagc ctgtgctgca ganaagtctc actcacctc ctaccatagc cccagagggg  480
tccagacccc aggggtggtt gccagcagc aagctagaca gtggatttgc caagacatct  540
gttgctgctt ctctatacca cacacctct gactccaagg gaaattactc ttactgttac  600
ttcnaaggga ccctgaaaga actcctgttc atgaccnact tccnggaacc ncgaatgctg  660
aaaaagatng ggctttgaag tccaaggaag aatttccttt tggggatccn caacccc   717

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<210> 2871

<211> 552

<212> DNA

<213> Homo sapiens

<400> 2871

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tctaaaaatg cntcctgaag gtccctaata ttctaaatct gggaaaccac ttccgaacca   60
gctactttta aatttctcag actggctggg ggaaaataga aacttagcca ctctaactg  120
gtagatggag gcgtgaactg tnataacct nagatgggta tacagaattt ttctcccna  180
gtagcagtca cattgcaaaa agattatatt gctattgaat ttttaagggtg agattaaatg  240
tctgtnatat gtgcataatc ttccattcct gggatcttag tcttgacatt ttcttttta  300

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gcatanaaca cccctccttt acaaagaang tnatctgtgg aaggaaagac atgctaatat 360
 gatggtttta attataattc cctcagaacg gaatatatcc attaagtaca tggcatatat 420
 atggctatag aaactgctac ntgtatttaa tttattgcct taattttttt ttatctctct 480
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 ttaatcactg cn 552

<210> 2872

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2872

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 ctcgggctgc tcacgtctct tcggagagcg cgcacatggc gactcaggcg tactccctca 180
 gctacgcagg gtgcaacttc ttgcgccaac gtctggctct gtctaccctg agcggggcgcc 240
 ccgtcaaaaat ccgaaagatt cgggccagag acgacaaccc gggcctccga nattttgaag 300
 ccagcttcat aaggctattg gacaaaataa cgaatggttc tcgaattgaa ataaacaaaa 360
 caggaacaac cttatattat cagcctggcc tcctgtatgg tggatctgtg gaacatgact 420
 gtagcgctct tcgtggcatt ggggtattacc tggagagtct tctttgcttg gctccattta 480
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 ttgatgttct taangcaaca gcactccctt tgttgaaaca atttgggatt gatggtgaat 600
 catttgaaac tgaatattgt ggcgaanggg aatgcctccc ggaaagaaga agcgaaatgg 660
 ttttctcatg tctgttaagg aangtcttga aanccattc cactcccaga ttcangaaaa 720
 aatccaacgt tttaaaaaga aanggcgttc ccngttacgt 760

<210> 2873

<211> 896

<212> DNA

<213> Homo sapiens

<400> 2873

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attaatatgt gctcatatct tactcaacat cagagagtct gtacttaata aaaccattat 60
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attcattctg aagacaaaca ttacaaatat taagagggtt gtagtaccat tacttgcac 180
acagatctta ttgtacacat tttgtactaa agaaaaccct gaagcagttg ctcaaatact 240
gttcaacatc agaaaattta tattggaaaa aacccttgga aaatgtaata aatttgtaaa 300
aacagttttg aaaaactaca gcttataaaa catgagggtc tataatgctt ggttgatagt 360
acaaagttaa ttcnacatca gggaatttat attggagaaa aaccctacaa atgtnatcag 420
tttggaaaaa catttttaaa aaaaccacag catagaaaac accacagggt tcatactaaa 480
atatgttttt gcagatgcag taaaaatgaa aaaaatttaa tccgaaatta agtttatgta 540
aatatctgan aattcacagt agaaatatct aaggcgcgga cacttcagac attacactaa 600
atcagtgcta agtncagaaa acaacncnaa ataaaacttg gtggataaat tatttgtnta 660
tnacattaaa agaagtagaa gattttcagt tataattacc attaaaagtt tacttttata 720
ttgaaaaaaa ttactgaatt tttaaattaa gtggaataat gatgttattt aaactcccca 780
aataactttt atgctccttt tttccattcc cggctaatan ttcncatgt tgaaaagcat 840
gttgaaccaa ttgntggctg gcccennaag aatttgaaaa aaattccttt ttattt 896

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<210> 2874

<211> 560

<212> DNA

<213> Homo sapiens

<400> 2874

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acacgccgcg ctgaggcccc cgggcccgctc atggaggcgc ccaccgtggg agacgcccc 60
ccgacccctc gcccccttcg gccccggccc ctgccctggt tccgttgccg gccccggatg 120
tggcgcggtt gcgcgaggag caggaaaagg aagaaggtag ataatgacta taatgccctt 180
cgagaaagac tcagcacctt gcctgataaa ttgtcttata atataatggt accatttggc 240

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ccttttgcct tcatgccagg aaaacttgtc cataactaatg aagtctctgt tttactgggg 300
 gacaactggg ttgcaaagtg ctcaacaaag caggctgtan gtttagttga gcaccggaaa 360
 gaacatgtta gaaaaacaat agatgactta aaaaaagtga tgaaaaattt tgaatccaga 420
 gttgaattca cagaagattt gcagaaaaatg aacgatgctg caggtgatat tgttgacata 480
 cganaagaaa ttaaagtgtg cttcgaattt aaagcnaaac accgaattgc tcataaaccg 540
 cattccnaac caaaaacttc 560

<210> 2875

<211> 602

<212> DNA

<213> Homo sapiens

<400> 2875

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 atcaagatga ggaggaaggt ctccaatctg atgggtgtat tgatgatgca tttgccttgt 120
 ggctacagga ctcaacacag acattgcaat gtattacaga actgttcagc cattttcagc 180
 gttgtacagc cagtgaagaa acagaccatt cagatctctt gggaaccctg cacaatcttt 240
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 aaaatctcca aagtcttatt actctaattg agtactattc caaagaagcc ttgggtgatt 360
 ccaaactctaa gaagtcngta gcttataatt acgcatgcat acttattttg gtgggtggtc 420
 antcttccag tgatgttcaa atgctagaac aacatgcagc atctctcttg aagctttgta 480
 aagcagatga aaataatgct aaattgcaag aacttggcna gtggcttgaa cctctgaaaa 540
 accttagatt tgaaattaac tgcaccccaa acttaattga gtttgtaag canaatatcn 600
 at 602

<210> 2876

<211> 489

<212> DNA

<213> Homo sapiens

<400> 2876

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gggggctgct ggggaaggccg gcgggatgga ggCggCggga ccggctcgcg ggtgcgggtc   60
cgggtgaagc gggaggcagc cagagtcgga gccgggcccg agcaccaggc gcaggcccgg   120
cgcccgcctg cccgcaccct cgtcctcaca gacgccacag ccatggccat gatggtgint   180
ccgcgggagg agaagctgan ccaagatgan atcgtgctgg gcaccaaggc tgtcatccag   240
gggactggag actctgcgtg gggagcatcg tgccctgctg gctcctctgg ttgcacctga   300
ggccggcgaa acctagcctg gctcgcagga tcgctgcata ctcctgcgtc gctccctgga   360
atccattgag cttgggctgg gggaggccca ngtgatcttg gcattgtcga accacctggg   420
ggctgtagaa tccgagaaac anaagctgcg ggCgcacgtt cggcgtctgg tgcaagaaaa   480
ccantggct                                     489

```

<210> 2877

<211> 826

<212> DNA

<213> Homo sapiens

<400> 2877

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attaaatgat tataaactaa ggaaaaggaa gacttttgaa gataatataa gaaaaaacag   60
gactgtgatt agtaactgga taaaatacgc acaatgggaa gaaagcctaa aggagattca   120
aagggtcga tccatatacg agcgtgcttt agatgtagac taccgaaata ttacactctg   180
gctgaaatac gcagaaatgg aaatgaagaa tcgccaagtc aaccatgctc gaaatatctg   240
ggaccgggcc ataacaacgc tgcctcgagt taatcagttc tggtagaagt acacgtacat   300
ggaggaaatg ttgggaaacg ttgccggtgc ccggcaggtg tttgagcgct ggatggagtg   360
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ggatcgggcc cgcaccattt atgagcgatt tgcctcgtg caccctgatg ttaagaactg   480
gatcaagtat gcccgtttg aaaaaaaca tgcttatttt gcccatgcac ggaaagtgtg   540
tgagaganc t gtggaattct ttggagatga acatatggat gagcnccttt atgttgcctt   600
tgccaagttt gaanaaaatc agaaanaatt tgaaagggtt acgantgatt tacaagtttg   660

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ccctggacng aatttcacaa ccagatgccc cagaaacctt ttaaaattat tcccctcctt 720
 tgaaaaaaaa tttnggtgaa tnggcggggg tttttaaaaa tttctttgtn aagccaaacc 780
 ggaaaattcc ccgtttccaa aanaaaaaaa ntttaaaggg cgaaat 826

<210> 2878

<211> 662

<212> DNA

<213> Homo sapiens

<400> 2878

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 gatatagtaa ctttgtgccg atgtgcacag attccaagg cttggaacat cttagccctg 180
 gatggaagca actggcaaag aatanatctt tttaactttc aaacagatgt agagggtcga 240
 gtggtggaaa atatctcgaa gcgatgcggt ggattcctga anaagctcag cttgcgaggc 300
 tgcattgggtg ttggggattc ctccttgaag acctttgcac agaactgccg aaacattgaa 360
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 cagatcacga aggatggcnt ccaagcactg gtgcgangtt gtccaagcct gaaanccctg 600
 ctcctgaagg gctgcccnca gttingaaaat gaagctctga aacacattca aattactgcc 660
 nt 662

<210> 2879

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2879

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 atttataagc tataaatgac caaggtcctc agactgcttt tagcatctgc aacttaaaaa 180
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 tagttgattc caggcttatt tgacttaaag tcactgaant ggaaactaag aantggcagt 420
 tagtgtttta cccagcattt ctgccttctc tcttttcttc atgtgttttt gtctctagcc 480
 tatgtgtatt tgtgtaaaat aatgtgggat accngaana tanatttaaa aggaccaant 540
 ggtnaaattg ggcccaa 557

<210> 2880

<211> 700

<212> DNA

<213> Homo sapiens

<400> 2880

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 aaagagctac aaaggcaaaa aacaaatcta gatgatgatg tacctattct cttatttgaa 180
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 atggagaaga gattacaaga gatgaaggag aaaagggaag atctttcccc cacctcttcc 300
 caaatgattc agcagttctc tgataatcca agtaactctc tgtgtgaagc acctttgaac 360
 atttcacgtg atactttgtg ttcagatgaa tactttgctg gtggcttaca ctcatttttt 420
 gatgatcttt gtggaaactc aggatgtgga aatcaggaaa ggaagttgga aggatccatt 480
 aatgacatta aaagtgatgt gtgtatttct tcacttgtat tgaaagcaaa taatattcat 540
 tcatcaccat ctttactca cctcgataaa tcaagtcctc agaaatttct gagtaatctt 600
 tcaanggaag aaataaactt gcnaagaaat attgcgggtt aagtaatccc cctcaccaaa 660
 aaccagctgg canggtntgt ctcnggaaa cgttttgaaa 700

<210> 2881

<211> 640

<212> DNA

<213> Homo sapiens

<400> 2881

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aagaagatgc ctggagcagg cagcatcctc aaatggaagg taattgccct caaatcactt   60
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gggaggcatc gtgccagagc ctggggcaag aaagggtgc tatccaggaa tgcaggtgaa  180
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taggagagat catcaaagct aaatgaattg ggctataaac agtttgaaat atgtctttaa  420
attttaaaaa acatattttt tgtttgtttt ggggagagan gatcatttan actcaacaac  480
aaaacagaaa actgtgagtg ccattttgag acaagaccta cctggtcctt cccctcata  540
ctttctgcta ccccgtagcc tccctctctc cttccagtca cagattatcc gcttggtttt  600
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<210> 2882

<211> 696

<212> DNA

<213> Homo sapiens

<400> 2882

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cagttatatt ctactctgaa agaaggcaac ccaccctggg aggtgacaga agcggttctc   60
tttatcatgg ctgctatagc aaagagtgtt gatccggaac acaatccaac acttgttgaa  120
gtcctagaag gagttgtccg cctcccggag accgtacata cggtgtgctg ttacaccagc  180
attgaattgg ttggagagat gagtgaagtc gttgatcgaa atcctcagtt ccttgaccct  240

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gtgttgggct atttgatgaa aggcctgtgt gaaaagcccc tggcttctgc tgcagccaaa 300
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aatggcatat cctcagatcc cacagtgttc ttagatcgcc ttgcagtgat atttaggcat 600
accaatccca ttgtggaaaa tggacagact catccgtgtc agaaagtcnt acaggaaata 660
tggccngttt tatccgagac tctnaattan cncgga 696

<210> 2883

<211> 625

<212> DNA

<213> Homo sapiens

<400> 2883

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agctgctgcc antgcctctg gggaa 625

<210> 2884

<211> 556

<212> DNA

<213> Homo sapiens

<400> 2884

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tagatgctgc taactgttcc tcggctgac gttttgtgac ctttctgctg cctacaatcc 60
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aaaggattgc cnaggccatt gaagttttgt taactctctg tggagatgat acactaaaaa 180
tgcataattgc aaaaatcttg acnactgtca agtgtncac tcttatagaa cnacaattta 240
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ttgctgctga tgttttttga aaactcttga tttgattaac aaacttaaac cattggttcc 360
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ttttgcttta acgtccgata atagagaaca agtacagtct ggactgagaa tattattgga 480
ggctgctcca ctgccagatt ttcctgcttt ngacttggg agaaagtata gcancanaca 540
atgcctattn acgacn 556

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<210> 2885

<211> 565

<212> DNA

<213> Homo sapiens

<400> 2885

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gtgctgggcc gcgggccgaa agatcgccag ggctgcgtat gcttgtggcg cgcccgcgga 60
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agcgcttaca ttcaggagct ccgcgtagca cctgcccac caaactcagc cctccgttaa 180
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atgatggaga actggggaag cttcttgcct cctctgcaa gaaggctcct ttacagaaaa 360
tcganttcga gccagccagc aagaacttct cctaccagct ggaggcctta aagaacaaat 420
atgtgttgct cnaccccaaa acagagggag ctagtcgcca caagaatgga gatgaccccc 480

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cngccangag acgggcagtg agcacacgtt tgagaactgt ggtgaccgaa tccccgcccc 540
gcagaaatnc ttttcccacg ggagc 565

<210> 2886

<211> 539

<212> DNA

<213> Homo sapiens

<400> 2886

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gctacagttt ttgtgtttgc tgttggtata tatttccaag gatttcgcgt tgatctgccc 180
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cctcctgagt ccatgggcgc catctttgaa gatcctgtcc atgtcnttgt ttatatcatc 480
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<210> 2887

<211> 670

<212> DNA

<213> Homo sapiens

<400> 2887

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gtggtgggtt ccatgtgatg gtggagtagg aggcaggtct ccgcggttca tctgtgttgc 120
tctaaatgac actgcttcat tattttgatg gctgganaat atttcctagt gtatgtatat 180
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tgtgttaagg ctagtcaccc tgctgtggaa tagaaggcca gaattgatca gtctcatctg 300
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 tctggtttct tcatgtggct gcagatggca ggatttccca aaggtttctg gctgaaacat 420
 attccgtggg gtatctgtac agcagtttcc tcatccctgc agctgtgttt gaacaggcca 480
 tttaccatgc tgtcctccag gtccaacagt ntggctccaa aggatgaaat ttcattctga 540
 ttttctggct gaanactatt ctcttttgtg atgtccacca cagttacttt atcccttctt 600
 ctgtggatgg ggcantctcn ctgttttgcc cangctggaa tgcantggca tgatctcanc 660
 tcacttgcaa 670

<210> 2888

<211> 589

<212> DNA

<213> Homo sapiens

<400> 2888

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 aggccangag tttgcancca gggcgccggg tttgtgtctt gcantgtcgt gaggctgagg 180
 tgcacatgtg ctagactggg agccctgggt ggtgcccgtg ccgggctggg actgttgctg 240
 ggtaccgccg ccggccttgg attcctgtgc ctcttttaca gccagcgatg gaaacggacc 300
 cancgatcag gccgcagcca gagcctgccc aactccctgg actatacgca gacttcagat 360
 cccggacgcc acgtgatgct cctgcgggct gtcccangtg gggctggana tgcctcagtg 420
 ctgcccagcc ttccacgggg aaggacagga caangtgctg gaccgcctgg actttgtgct 480
 gaccaccttg tnggcgctgc ggcgaggagt ggaggantg aaaaancagcc tgcgaaggct 540
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<210> 2889

<211> 814

<212> DNA

<213> Homo sapiens

<400> 2889

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ttttcagtag cgtctcctcc ttattcattc acttttactg tgaanactga aatccaaaag 60
ccaggttccc caaaaaagta tttttaaaaa attttagggg accaaaataa atagaggaag 120
accaatataa aaaaatatgt tcaactattc cattttaaat ttaaagcaga aaaaaaaatt 180
gtgcccctca gacctaaagg cagcttttaa tgtatatagt ttggtgaaac atttgggaaa 240
tattaatttg gaggtttaga agcatacgaa aaacaaattc aaagcacttg aaagtaaaga 300
caatatcatg aggtcgaaaa aaacttcaaa aggatattag gtnaganaaa atgtgaatga 360
aagcagtga tttctgcctc tcctcgtatt tagggtactt aaaattacta aaaaatactg 420
tctttttacc atacagctag atggcctgta ttattcttaa tgtggccaaa ggantgaaga 480
ctgattaggg ttttagaatt tggaactgta gtcacataaa ggcatctttt gcatttctta 540
aaccagtaat ctacattttc tcctgggaaa tgggagaaat atgaaantgn tgctgtgcat 600
aagcttttgg gaatagaaan acaaagtttt aanagaatg ggatatgttt tccttgcnca 660
acttgtaaaa attttaattt aaaaaattta cctccatttt ttccaatcca taaagggtgc 720
ttttggcctc caanttttgt tggngaattgt tttggttccc atccccatta aaaaaccccc 780
tttcaccccn naactggtat tttngaaaat attg 814

```

<210> 2890

<211> 739

<212> DNA

<213> Homo sapiens

<400> 2890

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tcacctacat ccctttctac ggcatcctgg gagccctcct tttcctcaac ttcacaggt 180
tcctggagag ccaactggtt gtgtgggtca cacagatnaa tcacatcgtc atggagattg 240
accaggaggc ctaccgtgac tggttcagta gccagctgac agccacctgc aacgtggagc 300

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agtccttctt caacgactgg ttcagtggac accttaactt ccagattgag caccacctct 360
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 ccaagcatgg cattgaatac caaganaacc gctactgagg gccctgctgg acatcatcag 480
 gtccctgaan aatctgggaa gccgtggctg gacgcctacc ttcacaaatg aagccacagc 540
 ccccgggaca ctgtggggaa aggggtgcang tngggtgatg gccanaagaa tgatgggctt 600
 ttgttttgaa ggggtgtccga aaagctgggtg tntgcactgc tcacggaccc atgttggatc 660
 tttctccctt tctcctctcc ntntctctt caatctcccc catanencct ggccctcttg 720
 ggaacttgcc tcctcance 739

<210> 2891

<211> 464

<212> DNA

<213> Homo sapiens

<400> 2891

tttattaact ggaggcgacg gcggctgcgg cggcggcggg accgcctcct ccgggggtatg 60
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 tccggcggcg gtggtantgg cggcggcggc ggCggCggca ncagcggcag gagggcagan 180
 atggaacca cctttcccca gggatatggtt atgttcaacc accgtcttcc cccggtcacc 240
 ancctcaccg gcccggcggg gtcggccgcc cctccccgc aatgcgtggtt atcctcctct 300
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 cagtcttttg ttancatcaa acaggaaaaa cccgcggatc ctga 464

<210> 2892

<211> 575

<212> DNA

<213> Homo sapiens

<400> 2892

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cgacgcgccg ctggcctcag cctggacgcg gaccctccg cgagcgcgtc tgtgaccac 180
ggaaccggca ggcgctctct gcttgtggcg cccagagggc ggcgctgaca cgggcgcgat 240
ccgggaggcg aggcagggca gggcactttc gtcccggggc gatcccaaga gacgccggct 300
ctgggaccct cgccgggtcc tcgtcccgcg gcctcttctc ggcctcccgc gatcctgcct 360
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cttccctcgg ctcccgttag cccctcccgg gacctctccc cctccacccc ctccccacc 480
ccggaggccg ggctggacgc taccanaac ctccgccacc cgcttctgcc actcnatgga 540
angacggtct tgctggagat cntgaccaan gacgg 575
```

<210> 2893

<211> 683

<212> DNA

<213> Homo sapiens

<400> 2893

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naaaaatgtc tgtgtcttcc tggttgcgac atgcactgac ggcctaccaa ctggaaagtg 60
cagagtgggt ctgcaaattg ttagaggaag catccattga ttttcgattt ggcaaaactt 120
acctgaaggg tatgagatat gcggtatttg gcctgggaaa ttctgcctat gctaaccact 180
tcaacaaggt tggcagnnat gttgacaagt ggctctggat gcttggcgcg catcgtgtga 240
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acttcagagc atggaagacc aanttcattc cccagctgca ggcacttcag aaaggggaga 360
gaaagaantc ctgtggcggc cactgcaana aaggcaantg ttaatctcac caacntggct 420
canaggagag ggaggaagga tctcatgacc aggatgaatt gcattctaga caccgagga 480
aggaanaacc tttgagagct ccaggtgaaa aanatttggg ggtgaggacc atcagacct 540
aattccattg ttgatgttna anatttgggc caaattatgg atcctgtgta naaagaacag 600
agagaatcga accgcccga aaaaaantct ggtttgttcc aggaacctg gggaagaant 660
```

gaaaattngt gaaaagaaaa act

683

<210> 2894

<211> 701

<212> DNA

<213> Homo sapiens

<400> 2894

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ggctggtgta tttgtacatc tctcgggacg tgaaattgac agtgaaaagt atggcagatg 60
agcaagaaat catgtgcaaa ttggaaagca ttaaagagat caggaacaag accctgcaga 120
tggagaagat caaggctcgt ttgaaggctg agtttgaggc acttgagtca gaggaaaggc 180
acctgaagga atacaagcag gagatggacc ttctgctaca ggagaagatg gcccatgttg 240
aggaactccg actgatccgc gctgacatca atgtgatgga aaacactatc aaacaatctg 300
agaatgacct aaacaagctg ctagagtcta caaggaggct gcatgataag tataagccac 360
tgaaagaaca tgtggatgcc ctgcgcatga ctctgggcct gcagaggctc cctgacttgt 420
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cagaacctcn gggagccccc cntccctgag tccctggccg ctgcagccgc tgccgcccac 540
cagctccaag tggctnggaa acangatact cggcagacgg ncccttcagg gcagcagccc 600
ccacctatga aggcctgctt gtctgtcccc ngcaaattcc ccgggaatgc cccctntttt 660
ccctctttgc aagggccaaag aatcngtccc cggaaccccc n 701

```

<210> 2895

<211> 500

<212> DNA

<213> Homo sapiens

<400> 2895

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acctgaagtc caaggcactg cgggagcgct ggctgctgga ggggacgccg tcctcggcct 60
cagaggggga tgaggacctg aggaggcaga tgcaggacga cgagcagaan acacggctgc 120

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tggaggactc ggtgtccang ttggagaagg aaattgaggt gctggagcgt ggagactccg 180
 cccagccgc tgccaaggag aacgcggcgg ccccgagccc agtccgggcc ccancgccga 240
 gtccagccaa ggangagcgc nagacagagg tggatgaa ttcacagcac acgccggtgg 300
 gcacgccccaa agacaagcga gtctccaaca cgcccctgag gacggttgac ggctcccca 360
 tgatgaangc antggtccat gctgtggacg gcaccgccga aaactggatc caccctga 420
 gctcctcta tgtggacgaa ctcatccacn aagcgnacga agtcncgtt agcgaagcag 480
 ggtccacngc cggggcngca 500

<210> 2896

<211> 151

<212> DNA

<213> Homo sapiens

<400> 2896

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 tccccacccc ctccgacgtg tccgtccacc ctccatcaa cgggtctcct cccagcggcc 120
 tccgngtct tgcccancag ctcaagaana a 151

<210> 2897

<211> 653

<212> DNA

<213> Homo sapiens

<400> 2897

gataaggaac ngaagacggt naaacaatg aatcgcaat ttcaaataat ataaacatgc 60
 agagttactc agtagaatg cctaccgtgt ctccagtgagg aggcataatt ggcaccgga 120
 tagatgaact gcagaagagg gtgccaaaat tgatctttaa gaaaggaagc agaaagaata 180
 cagataaaaa ctaccttaac tttgtgtcac cattaccaga catagtagga cagaaatcct 240
 tgtctggaac accaagtggc tcacttggca tagtatcaaa taatagtgtg gagaccattg 300

gtcttctcca aagtacaagt ggcaaacaag gtcagataag tngtaattat gatgatgcc 360
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 taaacgtagg acacatgggc tcccaacagt ctgtcattca ntctgcangt gtcagtgttt 480
 tggacaatga ngcaccattg tcacttattg actcctcagc tctaaatgct gaaattaaat 540
 cttgtcatga caagtctgga attcctgatg aagttttaca aagtattttg ggatccatac 600
 tcccncaa at cagaaagcca naaagaagat cctttccatn tttgcanaac cnc 653

<210> 2898

<211> 896

<212> DNA

<213> Homo sapiens

<400> 2898

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 ctgcggagcc atggtccacg ccgcccgcc gcgacccgc cgccccgcat ggtagccgga 120
 acgtctctcc cttaccagcc ttcgcttcct ggtgcccagc tcttaggacc gtgtgtgact 180
 ctggccttct accgagacaa cagagaaacg cacagcaact cgcatggagg aatcggcgaa 240
 atggctccga ccgcggcgct ggggggcggg gccagcgagc ggtgttgaaa gcagcagggg 300
 cctagaagac attaaaccga taccacagaa atacaangga tcattagaga ctattatgaa 360
 caactatatg ccnacaaatt ggaaacaaaa tggaaatgga taaattcctg aacagatacc 420
 acttaccaga attggaccaa gaaagaaata gaaaacctga aaagaccaac tatgagtaat 480
 gagattaaat cagtaatata gagtctccca tcaaagaaaa gtccaggccc tgatggcttc 540
 actgctgaat tctactgaac agttnaagaa gaactcatac cagttctcaa actcatcctg 600
 tgagggcagc attaccctga taccaaaact agatttggac acaagaaaaa aaatctatng 660
 gccngtatcc cctgatgaac atagatncca gaaatcctcc aacaagaacc aggttttttg 720
 ttggtttcat gccttgtaa tccanccac ttttggggaa ggcccaaggc caggtnggat 780
 caccctnaag gtccgggnaa ttttgaaaaa ccgccctggc ccacattggc aaaaccctg 840
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<210> 2899

<211> 645

<212> DNA

<213> Homo sapiens

<400> 2899

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gtgcgaccgt tgctgcaggt ggtccaggct tgggacctg acgcgaggcg ctgggtccgg   120
gcgctgcggc gganccagc gaaagtgggtg tttccttccg gagaggtggt ggaacagaag   180
cgcgctcctg ggaagcagcc ccgcaaggca ccatctgagg ccagtgccca ggancaacga   240
gagaaacaac cgctcgagga gtccgcatcc cgcgctccca gcacctggga agagtctggg   300
cttcgctacg ataaagctta tcccggggac aggaggctga gcagtgtaat gacaatngta   360
aagtccaggc catttcggga aaaacaaggg aagatcctgc tggaaggctc cangctcatt   420
tcanacgctc tcaaggctgg agctgtgcca aaaatgttct tctttagccn tctagaatac   480
ctaaaggagt tgccagtcga taagctgaaa ngtgtcagcc tcattaaggt gaaatttgan   540
gatatcaagg attggtccga cctcgtaacg cccaaggaa taatggggat ttttgccnag   600
cctgaccatg ttnaaatgac taccnaaga ctengcttcn cattc                       645

```

<210> 2900

<211> 485

<212> DNA

<213> Homo sapiens

<400> 2900

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gactctggga tcggcggcgc tatnagttct ttcgaggggc agatggccga gtatccaact   60
atctccatag accgcttcga tagggagaac ctgagggcc gcgcctactt cctgtccac   120
tgccacaaag atcacatgaa aggattaaga gcccctacct tgaaaagaag gttggagtgc   180
agatnaggaa actgaggaac cagagagggt aaattagttg cccagtgtca cacagccagt   240
aagtggcagg accaggattc cagccagctt gaaggtttat ctatactgtt cacctgtgac   300

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taaggagttg ttgttaacga gcccgaata cagattttgg aagaaacgaa ttagcantca 360
 caacagcagg gttgttcctg ttgtctctgg cattcagctt gaagttacta caggtcagcc 420
 cggccagcan tcaggaagga aagctggaan anaagtggag gggaacagan acaaactgga 480
 angca 485

<210> 2901

<211> 692

<212> DNA

<213> Homo sapiens

<400> 2901

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 gcggagacca tgcagaaact ggagttgaac catagcgagc tcatccagca gagccaggtc 180
 ctgtggagga tgattgcaga gttgaaagag aggtcgcaga ggcctgtccg ctggatgttg 240
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 tatgcagctg atgtgcgctt ggatccagat actgcttacc cccgtctcat cgtgtctgag 420
 gacagaaaac gtgtgcacta tggagacacc aaccagaaac tgccagacaa tcctgagaga 480
 ttttaccgct ataatatcgt cctgggaagc cagtgcattc cctcaggccg gcactactgg 540
 gaggtggagg tgggagacag gtctgagtg ggctgggan tatgttngcc aaatgtanac 600
 cgggaaggag gtggtctact tatcccccca ctatggattc tgggtgataa ggctgaagaa 660
 agggaaatga attccgagcc nggcccnat na 692

<210> 2902

<211> 541

<212> DNA

<213> Homo sapiens

<400> 2902

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aaattgttca gttactgcgt gaaggtgaaa gtcaaccggc agcaactggt caaactggaa 60
atgaacacct tgaacgtcat gctgggggacc ctaaacctgg cccttgtagc tgaacaagaa 120
agcaaggaca gtgggggtgc agctgtggct gagcagggtgc ttagcatcat ggagatcatt 180
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gacaaggatc aactgggtgat gctcttggac cagatcaaca gcacctttgt tcgctccaac 300
cccagtgtgc tccagggcct gcttcgcata atcccgatcc ttccctttgg agaggtggag 360
aaaatgcana tcttgggtgga gcgattcaaa ccatactgca actttgataa atatgatgaa 420
gatcacagtg gtgatgataa agtcttcctg gactgcttct gttaaataac tgctggcatc 480
aanaacaaca gcaatgggca ccagctgaan gatctgattc tcccgaangg gatcaccag 540
a 541

```

<210> 2903

<211> 480

<212> DNA

<213> Homo sapiens

<400> 2903

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tgaatagaag gctgggtccag cggcggcgga agctggcgct gtcctgagag ggagggctct 60
gtgcggaana aatgaatcgg acaaagggtg atgaggagga gtattggaac agctccnagt 120
tcaaggcttt tacctttgac gataaaaacg atgagctttc acagttaaag gagtccaagc 180
gggcggtgaa cancctccga gacttcgtgg atgatgatga cgatnatgac ctggagcgag 240
tcagctggag tggggaacct gtgggaagta tctcatggtc catcanagag actgctggtn 300
atagcggctc aaccacagag gggcgtgaac agctnaagag ccgaaacagc ttctcctcct 360
atgcacaact acccnagcct acttctacct actccctgan cagctttttt agaggtngaa 420
ctagacctgg aagtttccag tccctttctg atgctctgtc anacacnct gccaaaanct 480

```

<210> 2904

<211> 652

<212> DNA

<213> Homo sapiens

<400> 2904

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ggccatctct gggcggcggc ggcgggcggt gtctgcgcgg tcggtgagac ccgcgcgggt 60
gagacgctgg ccctccttac agcctagaaa aaatgacaga tctcgtagct gtttgggatg 120
ttgctttaag tgacggagtc cacaagatcg aatttgaaca tgggactaca tcaggcaaac 180
gagtagtata ttagatgga aaggaagaga taagaaaaga gtggatgttc aaattagtgg 240
gcaaagaaac attctatgtt ggagctgcaa agacaaaagc gaccataaat atagacgcta 300
tcagtggttt tgcttatgaa tatactctgg aaattaatgg gaaaagtctc aagaagtata 360
tggaggacag atcaaaaacc accaatactt gggtattaca catggatggg gagaacttta 420
gaattgtttt ggaaaaagat gctatggacg tatggtgcaa tggtaaaaaa ttggagacag 480
cgggtgagtt ttagatgat gggactgaaa ctacttcag tatcggaac catgactgtt 540
acataaaggc tgcagtngt gggaancgga aagaanggat tattcact ctcattgttg 600
gataatagag aaatccana gattgcaagt taatgaattt tcntcttaag aa 652

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<210> 2905

<211> 600

<212> DNA

<213> Homo sapiens

<400> 2905

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gactggcggc aggctcgccg cggcgcggag tcccggctgc gggatagacc gagggccatg 60
gccgcctctc ccggaccgcg cggcgttggc ggcgccggan cagtctacgg ctccggctct 120
tcgggcttcg ccctcgactc gggactggan atcaaaactc gctcggtgga ncanacgcta 180
ctcccgctgg tttctcagat caccacgctt attaatacata aagataatac caaaaagtct 240
gataaaactc tgcaagcaat tcagcgtgta ngacaagctg tcaacttggc agttggaaga 300
tttgttaaag tangagaagc tatagccaat gaaaactggg atttgaaaga agaaataaat 360
attgcttgta ttgaagctaa acaagcagga gaaacaattg cagcacttac agacataacc 420

```

aacttgaacc atctggaatc tgatgggcag atcacaattt ttacagacaa aacaggagtg 480
ataaaggctg caagattact tctttcttca gtgacaaaag tgttggtgct ggcagaccga 540
ntnntcntta aacagataat aacatcaaga aatanggttc tcgcaactat ggaaagacta 600

<210> 2906

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2906

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ctgaagaaac ttcttagagg ttcatcgcac ttctgagatt taatgtttac aacttggagt 120
tgtcgacctt cttataagat acatttttga agtcaaaatg aaagttttct gtgaagtttt 180
agaagagtta tacaagaagg tacttcttgg agccacactt gaaaatgaca gccatgatta 240
catcttttat ctcaaccag cagtttcaga tcaagattgt tctacagcca cctccttaga 300
atgggcaaac acctgtggtta tccagggcag gcatcagccc atctctgttg gtgtggctcc 360
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aatgctcctt cagttaacag tgatcaaagt gatgacaacc cggatattgt ctgtcaaac 480
cgagttccat gcaaaggagc agtacagaga tgtaattaaa attctcttag aatcagccaa 540
agtcgattct aaattaatct gcatgttcca aaattcagat aaattgttat ctcacatggc 600
tgcacagtgc cttgcattgc ttctatatatt ccnattgaag anaaaaagat aaccttaagt 660
aattcctggg attgcttttt ggcccagaaa aatctttctg aatactctga aaatttataa 720
agcnatattc tggctctngg aaccctacng gcaatnataa aaaaaaatct tttaaagaat 780
ccnggttc 788

<210> 2907

<211> 622

<212> DNA

<213> Homo sapiens

<400> 2907

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cccggatgtg gagaagctgg ggagaaggcg tgggaggaag atggactcgg tggagaaggg 60
ggccgccacc tccgtctcca acccgcgggg gcgaccgtcc cggggccggc cgccgaagct 120
gcagcgcaac tctcgcgggc gccagggccg angtgtggaa aancccccgc acctggcagc 180
cctaattctg gcccggggag gcagcaaagg catccccctn aanaacatta agcacctggc 240
gggggtcccg ctcatggct gggtcctgcg tgcggccctg gattcagggg ccttccagag 300
tgtatgggtt tcgacagacc atgatgaaat tgagaatgtg gccaaacaat ttggtgcaca 360
agttcatcga agaagttctg aagtttcaaa agacagctct acctcactag atgccatcat 420
anaatttctt aattatcata atgaggttga cattgttang aaatattcaa gctacttctc 480
catgtttaca tcctactgat cttcaaaaag ttgcagaaat gattcgagaa gaangatatg 540
attctgtttt ctctgttgtg agaccntcn gtttcgatgg gagtgaaatt cagaaangaa 600
ttcgtgaagt gaccnaacct ct 622

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<210> 2908

<211> 475

<212> DNA

<213> Homo sapiens

<400> 2908

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gcatcttttag tagagatggg gttttaccat gttggccagg ctggtatcga actcctgacc 300
ttgtgaccgg cccaccttgg cttcccaaag tactggaatt acaggcataa gccaccacac 360
ccggccgaaa aatatattta aaaaagtang aaacacacaa gacangcagc ttggacttat 420
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<210> 2909

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2909

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cacattttgg ccatggaact tgggggtctt gctttgttgc tcaggatgga gtacagtggg 180
gcaatcttgt ctactgcag catcgacctc tggggcttaa gccatccttg cacttcagcc 240
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cccacaaaaa catgctgact ttagaanaat ccatgattta gaatatattt ataaatatct 540
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tccttggaaa atccagtttt tatgananaan gtgatttccc aaatctctta cactttacaa 660
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ttgggataaa cactggacna aanggt 746
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<210> 2910

<211> 801

<212> DNA

<213> Homo sapiens

<400> 2910

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ctgggattac aagtgccac caccacgccc agctnatttt ttgtattttt agtagagaca 180
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gggtttcacc atgttgcca ggctggctc aaactcctga ccttgatgatt tgcctgactt 240
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tagaaccata accacaatac agttaccaca cttttgaaag tcgatgggaa ttccttaata 360
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gctcacatga tcctcctgcc tcagtgtccc gagtaatant gcagggactg tangcactta 540
ccgctgtgat ctgcttanct catacatTTT aaaaaataa ttggttcaaa tcaggatcca 600
aaaaagttac ataaattgtg tttgattaat gcgtacttgg gtccttttaa atctaaaaat 660
gtctctcatc ttttttaaaa aacattatTT gttagaaaaa aatgaattta ttccggttta 720
attcccccat tccaaaactt tactgaatgt ttcccatga attcctctgn cccctttgn 780
ttttcctgtt nactaatnng t 801

<210> 2911

<211> 730

<212> DNA

<213> Homo sapiens

<400> 2911

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accggggcta gcantggcat tggcctggcc ctctgcaagc ggctgctggc ggaanatgat 180
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tatctaaatg ctgggatcat gcctaataca caactaaata tcaaagcact tttctttggc 420
ctcttttcaa gaaaagtgat tcatatgttc tccacagctg aaggcctgct gaccagggt 480
gataagatca ctgctgatgg acttcangaa gtgtttgana ccaatgtctt tggccatttt 540
atcctggtaa anaagctgtg ggcttaataa gctaataatt cgtgtgataa tttctgtaaa 600
gctctgggca canggcattt attatagttg aacacngtt nactgaattt aatctcatgt 660

ttgaattttc cttgattgca ntttgcctt ggtttattgt naaacatgga atacttctgg 720
naaaccttcc 730

<210> 2912

<211> 528

<212> DNA

<213> Homo sapiens

<400> 2912

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gaaaaaggac gactgggact tgactctgaa tcgcaggatt tgaagagatt tctcctggct 180
tcccaacgag gctggtggga agcggtcctc ctcccataca cgacctcca ccctcgcgag 240
gcgtaaaaac cagttctgac tgtacagtaa agcgagggcc agggctgagg tctggaanct 300
aatgaaagca cagaaagtgt cnaaactgga tgagcaggaa gcgagtggcc tcccctgtca 360
tctgacgttt tcccagggat gtaatttgcc tgactggaaa cagatcagga ccaacagggg 420
agagttttcg atttagtgtg aggaaaagan cactanattg tagcaaaaga ccttattgct 480
caaggcccag tcagaanatt tcataaggga agctgttnaa agtcttaa 528

<210> 2913

<211> 565

<212> DNA

<213> Homo sapiens

<400> 2913

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gaaccacgaa agtagaaatc acagccagtc agcccaccag caccatcatc ctgcatagtc 120
accacctgca gatattctagg gccaccctca ggaagggagc tggggagagg ctatcggaag 180
aaccctgca ggtcctggaa caccctctc aggagcaat tgcactgctg gctcccagc 240

ccctccttgt cgggctcccg tacacagttg tcattcacta tgctggcaat ctttcggaga 300
 ctttccacgg attttacaaa agcacctaca gaaccaagga aggggaactg aggatactag 360
 catcaacaca atttgaaccc actgcagcta gaatggcctt tccctgcttt gatgaacctg 420
 ccttcaaagc aagttttctca atcaaaaatta gaagagagcc aaggcaccta gccatctcca 480
 atatgccatt ggtgaaatct gtgactgttg ctgaaggact catanaanac cattttgatg 540
 tcnctgtgaa gatnancacc tatct 565

<210> 2914

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2914

aagatgcaca agtaccttta accaaccata agaaatcaga aaagcaagat aaagttcagc 60
 acacagtatg tatggattgc agtagctaca gtacatactg ttatcgctgt gatgattttg 120
 tggttaatga caccaagctg ggactggtag agaaagtcag agaacactta cagaacttgg 180
 aaaactcagc tttcacagct gacaggcata agaaaagaaa acttttggaa aactcaacac 240
 taaacagcaa gttattaaaa gtaaatggaa gcaccactgc catttgtgcc acaggccttc 300
 ggaatttggg gaacacatgt ttcattgaatg ccatccttca gtcactcagt aacattgagc 360
 agttttgctg ttatttcaaa gaactgccccg ccgtggagtt naggaatggg aaaacagcag 420
 gaaggcggac ataccacacc aggagccaag gggataacaa tgtgtctttg gtagaagagt 480
 ttagaaagac actctgtgct ttatggcaag gcanccagac tgcatttagc ccagagtcct 540
 tattttatgt tgtntggaan attatgcaa actttagggg ctatcaacag cagggacgcc 600
 catgaattcn tgcgctacct tttgggacca cctncacttg gaacttcnng ggcgggtttc 660
 acggtgtttc ccgctcanca attctgcagg aaaattctac tctgtctgcc aattaccaag 720
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<210> 2915

<211> 715

<212> DNA

<213> Homo sapiens

<400> 2915

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aagacgcccg gacaccctgg aagcctagaa atggacaacc tgaggtatgg agtgtatcct 180
gtcaaggggg caagtggata ccctggggct gagaggaatc ttctggagta ctcttatttt 240
gaaaaggggc cgttgacatt tagggatgtg gtcatagaat tctctcagga ggagtggcaa 300
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aagcanttct cctacctcag cctcccgagt atctgggatt acgggcata gccaccacac 600
ccagcttaat ttgtattttt antagaaaca nggtttctcc atgttggta ggctagtctc 660
gatctcctga actcaggtna ttcaccacct cngcttccca aagtgccngg attac 715

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<210> 2916

<211> 654

<212> DNA

<213> Homo sapiens

<400> 2916

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accagaagca ttnaatgtta tcgtaaggct aattgaacaa gccccaattc aaatgggana 60
agaggcagtg aggtgggcaa aactgggtcat acctttagt gttcattcag cacaaaaggt 120
acatttgccg ggagcaactg ctctggagat gggaatgcca ttattgcttc agaaacagca 180
agaaatagca tctattacgg agcagcttat gactactaaa ttaatctcag aacttcagaa 240
gctattttat agtaaaaatg agacttacgt gttaaaatta tggcctttgt ttgtcaaact 300
acttgaagga accttgcac gaagtgggag tttcatcaat tctctcttgc aactagaaga 360

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acttggattt cgtagtggag cacccatgat taaaaagata gcttttattg cttggaagan 420
 tttaatagat nattttgctt taaatccaga tatactatgt agtgcaaaaa gactcaagtt 480
 gttaatgcag cctttgagtt ccatccatgt tgagaacaga aactctagca ttaacaaaac 540
 tagaantctg gtggtattta ctgatganac ttggacctca tcttcctgct aattttgaac 600
 aggtttgtng tgcctctgat tcnaaagtac aatnagcatt gattctnatg cctc 654

<210> 2917

<211> 675

<212> DNA

<213> Homo sapiens

<400> 2917

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 cccgggtccc cggcagcggg gtangatggc gctaaagcgg atccanaagg aattaaccga 120
 cttgcagagg gatcctcctg cccagtgttc tgcangacct gtcgggtgatg acttgttcca 180
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 gaccatccac tttcctacag attaccggtt caagccccca aaggttgctt tcacaaccaa 300
 aatttatcac cctaatatca acagcaatgg cagcatctgc cttgatatcc tgcgggtctca 360
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 ccccaacccc gatgaccccc tgggtgccaga aatagcacac acctacnagg ccgacagaga 480
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 gttttacatg aaacactgtc caagaaaanc tggcagaaaa gtcttcctt aaaactttgg 600
 gctgttggct gaaccattca aanaacatca tctgttcttc aaacaaatnt tngtcaccac 660
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<210> 2918

<211> 708

<212> DNA

<213> Homo sapiens

<400> 2918

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ggtagaataa acgtgggacc cggagtgacac caaggtgaga aaaaaaaaaat tactaaaaat 120
gacaagtaga anacttgagg agtccatggg ggctgttcan atgggattgg tcaatatgtt 180
caaaggattt caaagcaagg ttttgccacc cctgagtcca aagggtggtta cagaanaaga 240
agtaaaccga atgcttacac cctcagagtt cctgaaggaa atgtccctga ccaccgagca 300
gagactggca aaaacacgtt tgatgtgccg accacagatc atcgaactct tagatatggg 360
ggaaacaaca catcagaagt tttcaggaat tgacctggat caggcattat tccagccctt 420
tccatcagaa attatatttc agaactacac tccctgtgaa gtctatgaag ttccactgat 480
tttgaggaaac aatgaccaa ttccaagggt ggtgaaagtt gtgnaaaaaa nttgcctta 540
ctttaaagta atcagcccca aagatattgg ccacaaagtg gctcctggna gtgccttcca 600
tattccgaat cctctttact ccanaagaaa aacaaggatt acgcccatac ctnaacctt 660
gtgttactga aanaaaaaat ttattgtnc ccatcaagct ngaagggc 708

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<210> 2919

<211> 707

<212> DNA

<213> Homo sapiens

<400> 2919

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acaagaagga cgaggagtct ggtagtggct ccaatccttt ccagcatctg gagaagagtg 60
ctgtttttaca ggaggctcgt atattcaatg aaactccaat caatccaaga agatgtttgc 120
atattcttac aaagattctt tacttactga accagggtga acactttgga acaacggaag 180
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caagcagtct gactaaagac atgactggaa aagaagatgt ataccgaggc ccggccatca 360
gagctctctg caggatcacc gatggaacna tgttgcaagc cattgaaaga tacatgaagc 420
aggccattgt ggataaagtt tccagtgtat ccagttcagc actggtatct tccctgcaca 480

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tgatgaagat nagctatgat gtggttaagc gctggatcaa tgaagcccaa gaagctgcat 540
 caagtgataa tattatggtc cagtaccatg cattggggag tcctgtttcc cttagaaaga 600
 atgatcgact tgctgtttcc acatgttgaa taagtttact aaggctctgtt cccaagtcac 660
 agtttgctta ctgcatgctg atccgaattg ccngtcnctt actnaaa 707

<210> 2920

<211> 634

<212> DNA

<213> Homo sapiens

<400> 2920

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 ctgcacaact tcctgagcgt cctgtttcag tgcatgccan tccctgtgat cctgaacttt 540
 gatgcggant gtcagangac taaccaggtt caagaanaaa atgaattctg cgtcagaanc 600
 tttttgcatt gcaagctgaa atccnccgac tgaa 634

<210> 2921

<211> 551

<212> DNA

<213> Homo sapiens

<400> 2921

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<210> 2922

<211> 494

<212> DNA

<213> Homo sapiens

<400> 2922

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 gtagcttccc tgcgggtggg ctggagttcg gcggccggcg tagggcgcgg ccctgcaggg 180
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 gcctacgctt cgtccccttg tttcttgaac aaccgttagg gaccaggggt ncccctcagg 420
 gangccacag tccggggctg gggcgctcat tgatgcantg atcacacaac angccgcccc 480
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<210> 2923

<211> 484

<212> DNA

<213> Homo sapiens

<400> 2923

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ggccaccggg gctcgccgcc gtcattggana gcggaggggcg gccctcgctg tgccagttca 180
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ggtctgttaa aaaaacgctt aacagccant ttgtggaaaa ctgcaanggg gttattcacg 420
gctgacactt cangaacaca agattgtgtn gaatcnaacc acccaccttt gggaatgatt 480
gctc 484

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<210> 2924

<211> 741

<212> DNA

<213> Homo sapiens

<400> 2924

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aaaaatctat gattcagctt ttcatcctga cactgggtgag aagatgattt tgataggaag 60
aatgtcagcc caggttccca tgaacatgac catccacagg ttgtatgatg acgttttaca 120
ggactacgcc ggctgtgctg ttctggcagt ggattaacca gtccttcaat gccgtcgtca 180
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tttctgcaac aactggtgcc gtagcaacag ctctaggact caatgcattg accaagcatg 300
tctcaccact gataggacgt ttgtttccct ttgctgccgt anctgctgct aattgcatta 360
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ggaaccgctt gggggantcg gcgaacgctg cgaaacaagc catcacgcaa gttgtcgtgt 480
ccangattct catggcagcc cctggcatgg ccatccctcc attcattatg aacacttttg 540

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aaaanaaagc ctttttgaan angttcccat gggatgaatg ccccatcaaa gttgggtag 600
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 cattgtctgt tacaancttg gaagccgaat tgcanccttag atccaagaaa accctcctga 720
 attgngacnc tgttcttcca t 741

<210> 2925

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2925

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 aaggttctta ntctcgacta gggcagtagc cccaggactc ctagtcgccg gcttcaggtc 180
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 aangaaccaa catccttttg gagccatgaa tattgtccga actccatctg ttgctcagat 540
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 attttgcttt catcatttgc tgtctctcag gcccaaaata acnccnagcc catcttaaaa 720
 tgttccattc cnggcaaatt ttggttctna aaattgggtt ttnaaaaaaa aaaa 774

<210> 2926

<211> 655

<212> DNA

<213> Homo sapiens

<400> 2926

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tcaatcagaa aaacctggaa attgaactcc tgaaactaga aaaagataca gcagatgttg 180
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gcaaagactg ttgaaaccca tgtgccagga aaacttacct attgaagctg tttatcacag 420
atatatggta catttgctgg agttggctgt gactttcatt gagagattag aaaccacact 480
tgaaacaatt agaaatattc ctcatttagc tgcaaacta aagaaaatga accaggcttt 540
ancaaagatg gatatttgg tgactgagac agaagaactg gcagaaaaat atnctccnag 600
tggcggttaac aacaaaaacg aaantttccg tcttgtttcc cccaaaatnt tanct 655
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<210> 2927

<211> 665

<212> DNA

<213> Homo sapiens

<400> 2927

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tttctggatg acatcaagaa gctacaggaa aacctcaaga agaccctgga caatgtggcc 180
attgtagagg aggagaagat ggaagcagtg cccgacgtag agcgcaagga ggacaagccc 240
gaggggcagt cacctgtgaa ggctgagtgg cccagcgaaa ccccgggtgct gtgccagcag 300
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aagttcttca gcacagtgcg gaaggagatg gcgctgctgg ctacctcact gcctgagggc 480
atcatggctc agacttttga agatagaatg gacctcttct cagctctcat caggggcccc 540
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actcgaaccc cctacgaaga tggcctctac ttgtttgaca tccagctccc caacatctac 600
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tgttt 665

<210> 2928

<211> 513

<212> DNA

<213> Homo sapiens

<400> 2928

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tcttgtgaaa acagcgatgc cagcagtcac gcaaagtctg caaagcacac tcaggacagc 180
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ttgaggacta ccagcactct ggctctttcg ctgcctggcc atgctgcaaa aacccttcct 420
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nccacccttg gggganggga nttctgacac ana 513

<210> 2929

<211> 668

<212> DNA

<213> Homo sapiens

<400> 2929

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ctactaggaa gggcttaggg ggangaggga gcctgaaatt ccaaaaatat aaatgtggaa 180

agactggagg gggtcganga gtctctttgc ctgccttagc tctggcccca gctctccttt 240
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 ccctccttcc tggatttggc tatttttgta cttccctggt tgttgangca gcctgataca 480
 gcggggaana naactcgtcc tcgatttana aagattgaca ganaaactaa gtgtgtgacc 540
 ttaagcaagt catatcttgt ctccgggcct cacctgtaaa aaganggaag ggactgaatt 600
 tatcnngggt tttcaaata ttttaactct ggggtccttc cttcaaataa aaccgtntgc 660
 nctgaccc 668

<210> 2930

<211> 837

<212> DNA

<213> Homo sapiens

<400> 2930

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 ttggaacaca cctgtgtcca ttctttcatg tattgtctat ggctgctgtc atgttacaac 180
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 aataatttat tggctcagtg attcccaaat tatgttttat agaatatata tattctctaa 360
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 catgttttgt acccaaactc ntgggccat gggatctggt gctgaaacaa aggaaatctt 780

aaacaaaaaa atngaaactt ccggttanca aaattggtgt ctgaatccaa ntgatcn 837

<210> 2931

<211> 520

<212> DNA

<213> Homo sapiens

<400> 2931

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gatgtatgag gccatctcag gaganactac ttgttaggat tcttgagttt tgaccaacag 120
aaatgaactt ggaccaactt aagcaaggaa aaagcgttca tgggaaggat gctgggatag 180
ctcacaaaac caaaagaata nctgaacaat taattggcct tgggaagggt gggagctggg 240
gcaactacga ngcttgccct ccagganctg ctgcggttgg canatcaaca ccaacttgcc 300
attggttcta gtgggtcccc ttccactcaa gattcaaatt ccaagtgaag gaacctggcc 360
tggagctcag ggcttcatag agtgggaggg gggcantctt ccaaaagatg cggactcttg 420
ccacatggaa tgggtgganta cggaagggtg gaaagggttt ggtangtnaa ccctgaanat 480
gcttctaaca cacgtnctgt tctcccatct cacgtatgac 520

<210> 2932

<211> 876

<212> DNA

<213> Homo sapiens

<400> 2932

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tacagatatg tttggccctg aaacatgtac atgatagaaa aattcttcat cgagacatta 120
aatctcagaa catattttta actaaagatg gaacagtaca acttggagat tttggaattg 180
ctagagttct taatagtact gtagagctgg ctcgaacttg catagggacc ccatactact 240
tgtcacctga aatctgtgaa aacaaacctt acaataataa aagtgacatt tgggctcttg 300

gggtgtgcct ttatgagctg tgtacactta aacatgcttt tgaagctggc agtatgaaaa 360
 acctgggtact gaagataata tctggatctt ttccacctgt gtctttgcat tattcctatg 420
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 actccatatt ggagaaaggt tttatagcca aacgcattga aaagtttctc tctcctcagc 540
 ttattgcaga agaattttgt ctaaaaacat tttcgaagtt tggatcacag cctataccag 600
 ctaaaaaaacc agcttcanga caaaactcna tttctgttat gcctgctcaa aaaattacaa 660
 gcctgccgct aaatatggaa taccttttagc atattaagaa atatgganat taaaaaatta 720
 ccnaaaaaag aaaccactgc caaaacntaa accnggccct ccaactccca aaaaaaaaaa 780
 ttgaattctg gganaaaaaa agggaggaaa atttctgaag naacccccca gaaaanaaaa 840
 aaggggggaa ntttttgaaa aagggaanan aaaccc 876

<210> 2933

<211> 585

<212> DNA

<213> Homo sapiens

<400> 2933

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 ctctcttttg aactgacac ttggagcttg cagataagga agacaggggc tcagacagct 180
 actgactttc ctcatgctat caggatatgg taaaaacta aacctgaagg gcgatcggtt 240
 acatggacct cagaccagag tggcaggcca tgtgtttata ctgtgggatc tcccataaac 300
 aacaggggccc tttttccatg ccaggagcca cccgttgcca tgtcaacatg gcaggctaca 360
 gttcgagcag ctgcatcttt tgttgtttta atgagtgggg aaaattctgc caaaccaacg 420
 cagctttggg aagaatgctc aagctggtat tactatgtaa ctatgccaat gccagcctcc 480
 accttcacaa ttgcantggg atgctggacn gaaatnaana tggagacatg gtcctcaaat 540
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<210> 2934

<211> 538

<212> DNA

<213> Homo sapiens

<400> 2934

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cgccaagtgc ccctcgggtg cggagtgcga aagaccctan cggttcatgc gttcggcgag 120
cggggccgct gcttggtgcg ctcttggtgc tcccggggcg ggcgagatg ggcgccgctc 180
ccgggatgta tttggtgttg gtgcaaggcg ggagcgagcg gcggtcgggg ttcccgtctc 240
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gggaccgagc gggctcgggg caggagctca cctgtcgac ccacactcat tcgggttgga 360
cttgccggcg tcaccgcccgc ggacttcgct ttgggcatg accanataata attggtgatt 420
acaactttcc tctataaatt aactcttgac actccttggg atttgaanaa aaaaatgcct 480
ggtgtcatac ctagtgaaan taatggactt tcaagangtn gcccttcaaa naaaaaca 538
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<210> 2935

<211> 610

<212> DNA

<213> Homo sapiens

<400> 2935

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taattctgac tcattaactt ctacctactc aaaaaagtct gccatgatga tggaccgaag 120
tgaggctttt taaccacaaa gtaacctttt tatttttttg agacagtctt gctctgtctg 180
tcaccagagc tggagtacag tggcatgac ttggctcact gcagcctcga cttcctgggc 240
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gcctggctat tttttgttg agctgggctc tcgctttgtt gccaggctg gtcttgaact 360
cctcggctca agcaatcctt cccactcagc ctctgtagt gtcganaata taggcgtggg 420
ctactacacc tgcttcagcc gcttctataa aaccgctgac ctgtgtgttg angacagcca 480
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ngtgtgtgct cactgcgctg cgaaaatgtt ttgtcacgtg actttccccg gatttccatt 540
tctttttttc tgcttcctc cnaaactaat anaaanactg ggtgcggggg ctcacgcctc 600
taatencanc 610

<210> 2936

<211> 783

<212> DNA

<213> Homo sapiens

<400> 2936

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attaatggaa aatgtggaag cgctcattgt acatatggat atcaccagcc tagatattca 180
gcaggtagtt ctcatgtgtt gggaaaatcg tttatatgat gctatgatct atgtctacaa 240
cagaggcatg aatgaattta ttagtccaat ggagaaactt ttcagagtca ttgctcctcc 300
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atatatttagc tgttgtctag caggctgtgc ctatcccctt ggtgacatcc ctgaagatct 420
ggttcccttg gttaaaaacc aggtttttga atttctaatt cgcctgcatt catcagangc 480
ttctcctgaa ggaaaaaatc tacccttaca ttcggacttt gctacatttt gacacaagan 540
aatttctcaa tgtnttggca ctgacttttg aagattttaa aaatgacaag caagctgtgg 600
gaatatccac agccgaattg tggatatattt gttgaaagtt atgggtggan aattcagact 660
ttacccctc acaagttnga tgtctcttta ccttccttgn tccgcagctt gcaaacctg 720
acaacacctt gtttgtaaaa canaaacctt tttgatcng gtccttgaaa tcccttgntg 780
tcc 783

<210> 2937

<211> 720

<212> DNA

<213> Homo sapiens

<400> 2937

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aaggctacga gtcctcgggc aatgatgact acaggggtag ttacaacacc gtgctctcac 180
agcctttatt tgaaaagcag gacagagaag gtccagcctc cacgggaagc aaactcacca 240
ttcaggaaca tctgtacccc ggccttcat cacctgagaa agaacagctg ctggaccgca 300
gaccactga atgtatgatg tcgcgatcag tagatcacct cgagagacct acgtccttcc 360
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ggaaagtact gcctgccttg gtcacccgg ctattatat gaaactcccc ggggaccact 480
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aggctgagct gtccaatccc catgccggga tcttcccaca cccgtcctca cagatccagc 600
cccagcccct gtcttcccag gccatctctc ancancacct gcaggatgcg ggcacccggg 660
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<210> 2938

<211> 544

<212> DNA

<213> Homo sapiens

<400> 2938

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aaaaatggag attctccagg gacccttccg tatctgccta ggcattttgc tgtctcctcc 60
taatacgtg ttgctgtact ggacacttgc tcccatctac tctcttctct ggaatccacg 120
ggggattcct aaggatgtca ccacagtgtt ggccagatgc acaggtcaca ggggactgaa 180
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gatgagatga aaacaacaag caggccaggc acggtggctc atgcctgtaa tcccancact 360
ttgggangcc gaggcgggcg gatcacctga ggtcgggagc tcgagaccac cctgatcaaa 420
acaganaaac cccatctcta ctgaaaatac aaaattagcc aggcgtggtg gcaaatgcct 480

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gtnataccan ctactcagga nctgaggcag gaaaattgct tgaacccggg angtggangc 540
tgca 544

<210> 2939

<211> 821

<212> DNA

<213> Homo sapiens

<400> 2939

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tggacacgtt ttcatttctc ttggatacac actagcagtg gaattgctgg gtcatacagt 120
aactctatgt tactTTTTga agaaatgcca gacagttttc caaagtggct gcaccatttt 180
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cgggtcttan catgttgGCC aagctggTct tgaactcctg aactcaggtg atccaccac 660
cttggccttt ccaaantgtt gggattacag gcatnaacca ctgccccggg tggggttatg 720
tttttatatt gaattgtagg aatactttaa tcnttttaac taaaaattct ttatcctttn 780
agcttaccan ctncattnat ttggcaaaaa tttcctcccc a 821

<210> 2940

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2940

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tttgcathtt gcacttcctc ccangatatt tttttggtcc aaatatnaaa tattggtgca 720
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<210> 2941

<211> 678

<212> DNA

<213> Homo sapiens

<400> 2941

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acagcatgac agaagtactc cttcaaagca gctgtgtcta gaaagaagaa ctggaaaagt 540
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<210> 2942

<211> 609

<212> DNA

<213> Homo sapiens

<400> 2942

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 acaagcactt ccgtcatgca gaaaacccca tcctctctc aaaacctcca ncanaacggt 540
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 aaccatcn 609

<210> 2943

<211> 648

<212> DNA

<213> Homo sapiens

<400> 2943

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 actggananc taacatctaa nattttaagc agtattaaan tcttgga 648

<210> 2944

<211> 528

<212> DNA

<213> Homo sapiens

<400> 2944

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 ttctcagtct tcagaaacgg accaagaaaa tgagcgagag caaagccctg aaaagcccag 180
 gagttgtaat aaactgagca gagagaaagc tgacaaagag ggaatagcga aaaaccgcct 240
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 ccacactcct gtggaaaagt tgaaagccaa gcttgataat gacactgtca aatcttctgc 360
 cctggaccag aaacttcagg tctctcagac ggagcctgca aaatctgact tgtctaaact 420
 ggaatcagtt agaatgaaag tnccaaagga aaaggggctt tcaagccatg ttgaagtgg 480
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<210> 2945

<211> 679

<212> DNA

<213> Homo sapiens

<400> 2945

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cgtgttttca cagcccacac tcgtgcccga agccccttac cccgccccgg gctgtggtct   180
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ccactaacia ccagttccaa attctgtcat caaatcctgt gctgctgttc ctcgtggtaa   300
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ccgatggcnt tttaaaaatt ccaaaaggaa aaattaaatg gattttatgc tctgcnaatt   600
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<210> 2946

<211> 528

<212> DNA

<213> Homo sapiens

<400> 2946

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gcggtacctc ggtaccccaa gggctgttga aggacgcgag gaagancggc cagttaaacc   180
tgtcgggtag aaacctcagt gaagtgccgc antgtgtctg gagaataaat gtggatatcc   240
ctgaggaagc taatcaaaat ctttcgtttg gtgctactga aagatggtgg gagcagacan   300

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atttgaccaa actaatgntn tcaaacaata aacttcagtc acttacagat gacctgcgac 360
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ctataagaga gctanaaaat cttcagaaac ttaatgtcng ccataataaa ctgaaaatac 480
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<210> 2947

<211> 745

<212> DNA

<213> Homo sapiens

<400> 2947

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caagctttca catctggaaa ttatgatgcc tgtctacaac accttgcctg tctacaagat 420
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tcaagnagt cattctttat catctgcggc agtatacana agccataten gttggtgaaa 660
aactttatca gttcntagaa ctttttgaaa aaaaatttgc cccaaccatt gnttttttg 720
ctttgttaaa cctgttntnt tttta 745

<210> 2948

<211> 565

<212> DNA

<213> Homo sapiens

<400> 2948

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tgtgattggc ggtgaccgga tattcagttg cacatcccca catcaatgca ctgccaatgg 180
gttatatcct gtgttgtagc ctcatggttt aagtgggaat aaagatgagt ataagcagtg 240
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ttaatgagga tggtagcttg tttgatggc gaccaataga atctctgtcc ctgataaatg 480
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acaggcanca nctgctgcan ctgcc 565

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<210> 2949

<211> 559

<212> DNA

<213> Homo sapiens

<400> 2949

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taaacagcaa tatgatattg agataacaag aataaaaatt gaattggagg aagccctagt 60
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gataacatta cgtcagcgtg atgctgaggt gactcgacta agagaattaa ccagaacttt 180
acagactagc atggcaaagc ttctctccga tcttagtgtg gacagtgtc gctgcaagcc 240
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ctatgaaaat gttctgtcct ccagangccc tcaaaatatt aacactaggg gcatggagga 480
aagcatctgc ccctggaatt atttctgccc tttcnaancn ggattctgat gaagggagtg 540
aactatggct ttantanaa 559

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<210> 2950

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2950

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atgatggcaa agcatctttg gtgagcgagg aagaggaaga tgaagaagaa gatgggctgc 480
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naactggcca cnaacca 557

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<210> 2951

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2951

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tgaggccaac cacaaagggg cttggggcca catcaaggga tggcagaacg agagggaagt 300

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gcagggagcc tggcccaaaa aaccaaccct gccgccgcct cctggaagg gcacacctcc 360
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 aatgtgtggc ctctgccaga cccaggtggc tccaggtggt ttgactccca tttcctctcc 480
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<210> 2952

<211> 710

<212> DNA

<213> Homo sapiens

<400> 2952

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 ggacatatta tgtatatggt ttgttgccnc tgcccatatg gtttgcnegt ctaaaaaaat 660
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<210> 2953

<211> 519

<212> DNA

<213> Homo sapiens

<400> 2953

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agtggctgat gcctgaagcg cgctccaang aacanatnct ggaactgctg gtgctggaac 480
anttctggg catcctgcct gataangtcc ggcctgggt 519

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<210> 2954

<211> 684

<212> DNA

<213> Homo sapiens

<400> 2954

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gcgctgtgga agagattcta gaccgggaga acaagcgaat ggctgacagc ctggcctcca 180
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gttggctggg cccatgtgtg aaagggacct ctcggggaaa ccaaggccca nccctcccc 660

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cctcccccaa gtncctanaaa acca

684

<210> 2955

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2955

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taatgctcat tccaaaagca atgctccaaa angattgccc cactgatgga antantgcna 660
tccaactatg aagcaatgat tgatcgtgct catggaagcc caaactttat gaatgcattc 720
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<210> 2956

<211> 659

<212> DNA

<213> Homo sapiens

<400> 2956

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 gcaagcaatg aacaaattag cagaaaacct aatttttagtg aaaaatgctg taaagaaaat 540
 agaaatgcga tagagttgct ggcaggctaa tgtaaataag tggctctgaaa aggtgtctct 600
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<210> 2957

<211> 659

<212> DNA

<213> Homo sapiens

<400> 2957

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 ggagccggac tgtccanaan cagggtttc accacctttg gctccaaagg gatactccta 420
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<210> 2958

<211> 593

<212> DNA

<213> Homo sapiens

<400> 2958

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ttggatccat ctgatctcga tgtgganaga gatgaagaag ccgttnaaac aatcagtcga 540
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<210> 2959

<211> 510

<212> DNA

<213> Homo sapiens

<400> 2959

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ggactatggt accaatctct ccactgacct gtcgctgaac aaagagatgg gctctctgtc 420
 catcaaggac ccgaaactgt tcnaaanaac cctcaagcgg acacgcaa at ttgtggtgga 480
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<210> 2960

<211> 626

<212> DNA

<213> Homo sapiens

<400> 2960

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 actggcaagt tgtacnagt aactcatatc agaagaaatg gaacaattag atggagggtga 600
 cncgagcagt gatnangatn aagaaa 626

<210> 2961

<211> 516

<212> DNA

<213> Homo sapiens

<400> 2961

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<210> 2962

<211> 581

<212> DNA

<213> Homo sapiens

<400> 2962

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<210> 2963

<211> 740

<212> DNA

<213> Homo sapiens

<400> 2963

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tnattatttg aaaaaatgaa 740

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<210> 2964

<211> 464

<212> DNA

<213> Homo sapiens

<400> 2964

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gccgggtcccc actgatggtg gcggtcggtc ctgatcgtcc tgatggcagc gaccaagctg 360

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gactcgggct gtgcacgggc gaagggacaa ggcgggggtga ccccgga aaa cgcctggaaa 420
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<210> 2965

<211> 735

<212> DNA

<213> Homo sapiens

<400> 2965

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ccagttaggt cttcttatga agagttttca tccaggggat ataactcctt ggtcagtgat 180
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<210> 2966

<211> 682

<212> DNA

<213> Homo sapiens

<400> 2966

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 ggggtgcctca tttcttcat ctgtganatg ggaactgtta tgcctggctt actaanaatc 660
 ttgtngagan actgaaaaat tt 682

<210> 2967

<211> 640

<212> DNA

<213> Homo sapiens

<400> 2967

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 cactgcaacc ttaacctcct gggttcgggc gattctcctg tctcagcctc ccgagtagct 180
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 ttaagaaaca cccgattcag taacaatagc tcttaattta gtttatatca ttaaattgtt 420
 tgatcttcat ccttgtttta ggaaacacaa aaaagcntgc acaaanaggc ttataatttt 480
 tatataattt aaaatatttc ttcatttaaa cagaaatgtt ctactctccn ncttttcatg 540
 tgtncatact taccatttct gtgggtgtgt gcataaaatg ttngcatcat ttgatcaatt 600

ttctgttggt gccttgtttt atatcantct tcctcnntta 640

<210> 2968

<211> 604

<212> DNA

<213> Homo sapiens

<400> 2968

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 gaaaatgcac aattatcagt taagcaggtn cgaaacttga gatctgaatg tataggattg 240
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 gttgctatta atattccaag gctcttactt gacaaaattg agaaacaaat gtttcanttg 480
 cacataggaa atgtttatga ngctggaaaa ctgaacctct taacagttat tcnnttatta 540
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<210> 2969

<211> 618

<212> DNA

<213> Homo sapiens

<400> 2969

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 actaggccaa gtctttcctg ttctacnaac taagaccagg actaatgttc cgacgttttc 540
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 aaanaccng aagacnct 618

<210> 2970

<211> 489

<212> DNA

<213> Homo sapiens

<400> 2970

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 gatggctatg agtcgtcgtt gaacttccac aacaacaacc aagaggactg gggctgctct 180
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 ctgaggaggc acccgagttt cagtgcacaa tgtggcctgc ccagctcctg gacaagcact 420
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<210> 2971

<211> 571

<212> DNA

<213> Homo sapiens

<400> 2971

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aaagcatcca cctaattata aaaagccagt tctcttttct tttcagccaa atcacttttt 180
taataacaat aaggttcaac ttatggtaac tgatagttag ttgtccaatc agttttcaat 240
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tggtgtcact atagacctga gcagttttta cattactaga attgtgacat ttaccctttt 360
ttatatnatt aaaaacaaaa gcaaatacca tatatcagtg gctgaagaan gaaatgataa 420
atggctctct cttgatttgg agcagtgtat ccccttttgg cctgagtatg cttctagtaa 480
acttcttatt cnagtcgaan ggagtgaana tcctcccnna aggatatatt ttaacaagca 540
ggaaaattgt attctattgc gtctaaatna c 571

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<210> 2972

<211> 493

<212> DNA

<213> Homo sapiens

<400> 2972

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ttgccctgac agacatctcc gggagaaacc ttccttagaa aaggtcactt tccagattgg 180
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gaaggcctgt ggccccctct tggaggccag tgaggctgct gatgtggctc aggacccgca 300
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gctttcagag ggggatgaag gcgagtctga caagggtttt gcagaagaca gaagcagcag 420
aaacgacatg gcancanata ttgctgggcn gctcagccac gctgctgact tgggcacagc 480
ctcccacggt gca 493

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<210> 2973

<211> 754

<212> DNA

<213> Homo sapiens

<400> 2973

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gttgcaaaca aatgtcagat cccagatatt aaggctaaga catactgcat ttgtaatacc 180
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gattgaagag ttcaacatag gaaagagaca ttagccaac atgatgggag aagatccaga 300
aactttcact caagaagata ttgacagagc tattgcttac cttttcccaa gtggtttgtt 360
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aatccagtgg gganaagatg gccgtccatt tcactatctc ttctatactg gcaaacagtc 480
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ngggggcggg aagtcnccca ngctggaaca atacgactgg caatggccaa agccttgtgc 660
actttgtccc cccaagacaa agtccaattg gatnaaaaca agctgggact acttactact 720
gatccnctt ttaaggga cgnaaaaaa cccn 754

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<210> 2974

<211> 577

<212> DNA

<213> Homo sapiens

<400> 2974

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cttatacagt gcaaaggtaa tgctgatggc tagccctagt atggaagatt tatatcataa 120
gtcatgtgct cttgctgagg acccacaaga acttcgagat ggattccaac atcctgctag 180

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acttggttaag ttttttagtgg gcatgaaagg caaggatgaa gctatggcca ttggaggcca 240
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 agctcatgtg gagacagtgg ttttattttt cccggatggt tggcattgcc ttcccaccg 480
 ctgagagtgg gaaaccctct cccgaggata caagcagcag ctggtcgana ancttcaggg 540
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<210> 2975

<211> 903

<212> DNA

<213> Homo sapiens

<400> 2975

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 ataaagagac ccaggaaact gaaaaaaagc tcctgtttat ttcagagccc atccccacc 120
 cttcaaatga attgagaggg cttaatgaga aaatgagtaa taaatgttcc atgttaagta 180
 cagctgaaga tgacataaga cagaatttta cacagctacc tctacataaa aacaaacagg 240
 aatgcattct tgacatttcc gaacacacat taagtgaaaa tgacttagaa gaactanggg 300
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 aggaaaagga ccttcattca atatttactc atgattctgg tctgataaca ataaacagtt 480
 cacaagagca cctaactgtt caggcnaagg ctccattcca tactcctcct gaggaacca 540
 atgaatgtga cttcaagaat atggatagtt taccctctgg tnaaatacat cgaaaagtga 600
 aaataatatt agggacgaaa tagaaaagaa aatctggaac caaatgctga atttgataaa 660
 agaactgaat ttattncccc agaagaaaac ngaatttggt ttcaccggta cagtctttac 720
 tanactgttt cagactagtg gaaaaaaaat cngaattttt gggtttcnca agctaccag 780
 aaaaagaatt ggtatatgcc atgtttttta natattgggg aaaaagaaaa attcnaata 840
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aaa

903

<210> 2976

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2976

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aatcgaggac ttccaatatg acgaggactc ggagacgtat ttctatccct gcccatgtgg 180
agataacttc tccatcacca aggatcagtt tgtgtgtgga gaaacagtcc cagccccctc 240
agccaacaaa gaattagtta aatgctgaag aagccttcag gaatccaaat cctgaacatt 300
tggaatgagc ccagatagaa atatcgaatg caaagctact ggcttcacag agacaaccat 360
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cattcttaat tatgcatcta aatttaaaag aagataattt caaacacagt ctttctttcc 540
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tctacctcag tcattangat ttcttaataa aaaagaaatt gtatctttga cttggttatt 660
aanattatta anattagccc ttcctttgaa atatgacatc agctttgctg ttctaaattt 720
aaaattantt gcttcacng tancac 746

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<210> 2977

<211> 474

<212> DNA

<213> Homo sapiens

<400> 2977

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 gaggaacaga gaggaaaaaa attagcattt gttgagtgtt gacgatttgt agancatttt 420
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<210> 2978

<211> 715

<212> DNA

<213> Homo sapiens

<400> 2978

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 aataaagttt ctttattcaa aagcactttt tttttaaagc cacaccaccc ccattctcag 180
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 tcaacagaat cttttaaatg aaagtgatgg aaaatcaaga tggttctact caccgtgggt 600
 gtttgtaaaa tggtacatgt tntcgaaaaa ttcattgaaag caattatcca gantccacca 660
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<210> 2979

<211> 671

<212> DNA

<213> Homo sapiens

<400> 2979

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gaatggagtc taaaccttca aggattccaa gaagaatttc tgttcaacct tccagctcct 180
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tgagagagaa gagagatttg gagagaagaa canattcctc tattagtaat cttatggatt 600
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<210> 2980

<211> 508

<212> DNA

<213> Homo sapiens

<400> 2980

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gcccagagagc ggggacgagg aggtgtcggg cgcgggttcg agcccgggtgt cgggcggcgt 120
gaacttggtc gccaacgacg gcagcttcct ggagctgttc aagcgggaaga tggaggagga 180
gcagcggcag cggcaggagg agccgcccc gggctccgag cgacccgacc agtcggccgc 240
cgccgctggc cccggggatc cgaanaggaa gggcgggtccg ggctccacac ttagcttcgt 300
gggcaaacgc agaggcggga acaaactagc cctcaagacg ggaatagtag ccaagaagca 360

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gaagacggag gatgaggtat taacaagtaa aggtgacgcg tgggccaagt acatggcaga 420
 agtgaaaaag tacnaagctc accagtgcgg tgacgatnat naaactcggc ccctggtgaa 480
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<210> 2981

<211> 464

<212> DNA

<213> Homo sapiens

<400> 2981

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 gcggctccag ctccgggacg acnaccacga cnactaccac gacgggaggg atcctgatcg 180
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 cgatggcnac ggggcaggtg ttgtttcatc nttttttcta ctccaaatct ttcgtcgnac 420
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<210> 2982

<211> 497

<212> DNA

<213> Homo sapiens

<400> 2982

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 caaagacctg gagttccac tacctgcacc gctctggcca atcccatttg gaaatcagtc 180
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 caggaacagg gatgacactg gangacagca ngcctgcctg gangccanca ttctctacaa 480
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<210> 2983

<211> 896

<212> DNA

<213> Homo sapiens

<400> 2983

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 atgtataaat aacaaatgtt tataatttaac taaatgtaag gtacgaatta ttacatatta 180
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 gttacatttt atttttattt aaacctgggc caaaaccaa ttattttatg ttaaaatgnt 840
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<210> 2984

<211> 745

<212> DNA

<213> Homo sapiens

<400> 2984

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ccttccagta tgggggcgat agagacatcg gggacctggg atatttgttt tgtgcagaga 180
tctcctgcct gctgtcacca tgagaaacag tggagtggag tggatggatg gcctgacttg 240
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caccaccact cccgggtaat ttttgttttt ttaataaaa aacagggttt ccctcctggt 660
tttccaaaac tgggtctcaa accccctgat gtttgggtta acccgagac cctcgggcct 720
ccttnaaaat ncctgggnat ttacc 745
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<210> 2985

<211> 700

<212> DNA

<213> Homo sapiens

<400> 2985

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acagcctcat ccttgagcac cagtgggagc tggagaagct ggagctccta catgaggtgg 180
aaaaaaccg ccactttttg ctgctgcgtg agagacttgg tgacagcatc cccaaatccc 240
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tgagcgactc gttatccccc agcctcagca gtgggaccct cagcacctcc accagtatct 300
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 tatgattcag gagacatcga nngcctgggtg gaccgagaga aagagctggc taccaagtgc 420
 ctgcaacttc tcacccacac tttcaacaga gaattcngcc aggtgcacgg cngcgtcagt 480
 gactgttnagt tgtctgatat ctctccaatt ggacgggata cctctgagtc cagtntcagc 540
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 ctctgggata ngaagacccc aaaaagccct tcccgggcct ctantccctg ccanaattt 660
 gaaacaggtt tccanattgt tccccgcttg tgggaaaacn 700

<210> 2986

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2986

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 ggaggatctc aagtccacat tttttgggtg gctccaattg ctccactgaa aatcacagta 180
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 aatagacatg ttcattgtna agatgacttt gtacgttctg tttctgaaac acagaatata 420
 gaatcccaga agattcactc ctctagactg agtgatataa ctagctctaa tatgcaaata 480
 tgtggattta aaagcacagt tccgcatttc accgaanaag aaaagtatca aaagcttctc 540
 agtgaaaata aaattagaga tgaacagcct aaacatcagc cagatatatg tggtaagaac 600
 tttacacaaa atttgtttca gttggggcca taaatgtncg gctgtgttgg atttggtttg 660
 ttattactga aaaaattaat ntaggggnct gaaagttggt acaaaaaaaaaa ttttgtgccc 720
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<210> 2987

<211> 646

<212> DNA

<213> Homo sapiens

<400> 2987

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cctgatttcg ttttactga gaaggagggg acgtacgatg gcagctgggc cctggctgat 240
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gaaggctcag aagatgaagc ctcgagact gactactcat cagctgatga gaacatcctc 480
accaaagcag atacactcca agtanaggat cggaagaaga agaagaagaa aggaccggga 540
agcagganga tttttgaag atgcntctca ntacgatgaa aacctctcgt tccaggacat 600
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<210> 2988

<211> 766

<212> DNA

<213> Homo sapiens

<400> 2988

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ccatgctact cggaaggctg aggcaggaga atcgcttgaa cccgggaggc ggaggttgca 240
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aaaaaataag gaagctcaag atgaanagtc agaagtggta acttgtttgt tgcacaagaa 360
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 gccagggaaa aaaatatttg agttttttaga gaagtcattt tttaaacttt tagaggttgt 540
 gacatttaan ttacataatt ttatttanta cctagtatgc aaagacattg ttctggggca 600
 tgscancaaa taaaagctt ttgtnaatcg cantgtcccc tcttattaac cccgcattcc 660
 tancaggttg gttttttttt gctggaccgc accacantcc gggttacacc aaaaaatata 720
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<210> 2989

<211> 527

<212> DNA

<213> Homo sapiens

<400> 2989

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 ccagacttca cttacagctt caataaacia attggagtct actgcacgcc catcagagag 180
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 ctcaattatn acagaagagg aagactccac tngtgaagtt ttagatgaag aattaaaatt 420
 gcagcctttt aattccagtg aagactctac naatcttggt ccactgggtg tngaattctc 480
 aaaacccccct ngaggttgat ncaccagatt agaccccacg tntacct 527

<210> 2990

<211> 704

<212> DNA

<213> Homo sapiens

<400> 2990

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ggacctgcag ctgcccccca gtcagagggc gcagtccgca ttcaaagagc aaagaagaca 180
aaaactcaag gaacatctgt tgagaagaaa aacgcttttt gcatacaagc aggaaaatga 240
gatgttatcc agtagagatc agagagttgt gacatctgag gaccaagttc aagaaggac 300
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gagcaaaaaat aatacagtgg tggggaaaca ttgtattcct ttaaaacctt caaatgaact 420
aaccaattca actgtngtaa ttgacacacn taaacctaag gatagtaatc naactccgca 480
tttgttacta actgaagatg atccccaag tcaacatatg acattaagcc aggcatttca 540
ccttaaaaac tatagttaaa agaaacanat gactacngaa aaacaaaagc aagatgctta 600
catgccaag aaacctgtgc ttggatctta tcgtgggcca gattgttcca tctaagatta 660
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<210> 2991

<211> 663

<212> DNA

<213> Homo sapiens

<400> 2991

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agccaacacc gcctttctca gcatgggaga cttttgagcc catcagccaa gagccccctca 60
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cagaactgca acgtgcagag agcctccaag agaagagcat aaaagaggcc aagaccaaatt 180
gcaggacaat tgcateccctg ctactgcag cccccaaccc ccaactccaaa ggggtactta 240
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aanaagcctt ctctgacgcc cgcagcctca ccaatcaatc tgactgggac agtccttatc 420
tggacatgga gcttgccagg gcgggctcaa naacatcana aggccagggc tctgggctgg 480

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ganggcagct gagtgaggtc tctgggcgaa ggggtgcagct ctttgaacag cancgcccgc 540
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 ccc 663

<210> 2992

<211> 818

<212> DNA

<213> Homo sapiens

<400> 2992

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 acaatgtttt acttggtaca taaatgctgg ttttctttca gatttaagga catacacttt 180
 tttttttttt tttttaagag acagggtctt ctatgttgcc caggctgtct ttgaactcct 240
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 catggcagac cctaacagaa aagctacagt gtgtttttgc agctatgaag tgaatggttt 420
 cctggggaaa attgtgactt tgtataactg ttgttgaaac cagaataaat tatatttcac 480
 ttgcatatgc ataaattatt aaaattttca gaagtcagtg atacagaagt actattttgc 540
 aatgttaatc tgtttgagtc tttgganaaa gtggtttcat tgtaggtac atagtgcact 600
 gtttaatat taaacaagtt gttcactctt ccatttaagg gatagcagtt ccttggtata 660
 aaatgactgg gatgaattat aaaggaatta tgtttgcat gttgcccttt aaccagctt 720
 tagtaattac tataatctca tatttatgaa tanttctgt taggttacag gaacaaatga 780
 aaaatatatt atgttttcn cnncctttt aaatttaa 818

<210> 2993

<211> 630

<212> DNA

<213> Homo sapiens

<400> 2993

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gctgctaaag aggacatttg cactgatgcc atgcgtgaga actggatcag cctcagatat 180
gcaagtggca taaatgtcaa cctgcagaag aatttaaccc ttcccaaaaa cttactgaat 240
aaagaagaaa acacactgaa aaacacaatt gttttcagta atccttcttc agaatgtant 300
atgaaggagg gagtacagac atgtatgttt cctaaggaaa ctgacattaa aacttcagag 360
aacacagccg agttcaagga acgggagctc tgtccactga agacctcaa gaaaactacc 420
tgaaaaccat ttaccaagaa actcacctca gtaccaccag ccagacttgc cagaaaattt 480
ccaggaaaaa tnatgggaat aaccagcaag ttcctgtcna gaatgaagta aatcattgtg 540
aaaatttgaa gaaaggtgga ccnaagcctt cttccgaaaa gaagattccc naacctctgn 600
agaaaacttg ttttctgana aacgggacnt 630
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<210> 2994

<211> 523

<212> DNA

<213> Homo sapiens

<400> 2994

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gaaggcgccg tgccgagctg ggactgagga cgaagaggag gaggaggagg ggcggaggga 180
gacgcccagag gacagggagg tgcgtctgca gctggcgagg aagagggaag tgcggctcct 240
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gtttataatt gctataggaa ataatgcagt agcatttctg tcatcatttg ttatgaattc 360
aggagtctgg gaggaagttg gttgtgctaa actctggaat gaatggtgta gaacaacaga 420
cactacacat ctgtcctcca cagaggcttt ttgtgtgttt tatcatctaa aatccaatcc 480
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ctcgggttttt ctcgtcggt gcanttncta tgttcanaaa atc

523

<210> 2995

<211> 728

<212> DNA

<213> Homo sapiens

<400> 2995

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tacatatcga ccctttggtc tgggcagtga atctccctat aagcagcctt ctgatggaat 180
ggagagacca tcttcctga tggactcttc acaggaaaag ttctaccag atacttcttt 240
ccaagaagat gaggattacc gagattttga gtattcaggg cctccaccct ctgccatgat 300
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cgagtaccag ccaattctgt ccagttatag ccacagagcc caagaatttg gggtaaagtc 420
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tgtctcaatc taccactggg catctcagtt tgccncagaa gcagtacca gaatctctc 660
ncccagtcce acatcggttc ttttctctcc cgcaaaaaac ccttgccgct ccncgggtt 720
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<210> 2996

<211> 461

<212> DNA

<213> Homo sapiens

<400> 2996

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 aactgtngca aagaaccaca gactgggcga cttagacnat a 461

<210> 2997

<211> 675

<212> DNA

<213> Homo sapiens

<400> 2997

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 aatttgtttag ctttaggact gaagcatttt gaaggaactg agtttcctaa tcctctaate 240
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<210> 2998

<211> 702

<212> DNA

<213> Homo sapiens

<400> 2998

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aaacagcttt atccaaagga aaacgatttg gtgttttttag ctcttgagag aataaatgaa 180
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caactggcta gagctgttct gaatccaaac cctatggact tctgtacaaa agatttactg 480
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attcatggac cacctggaac nggaaaatcc aaaactattg ttgggctcct ctttcgtctn 660
ctgncngaaa accnaagaag gggcttcaaa caaaactcca tg 702

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<210> 2999

<211> 605

<212> DNA

<213> Homo sapiens

<400> 2999

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agaaaaggaa ccaaggccag agagacaaat aatgcctcat gtcccactgc tttaaaatta 180
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aataagacat taaatggtgg cttgaagaaa aagatacnca ttttcagaaa aaagaaaggg 300
gagggctgca gggatcctgt cttggcggga gctctccagt ctgttggatt agcacaggga 360

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cacgcttatg gtgccatgac gccgaaacta gtcttcccc atctccagca taggcaacgg 420
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 tttgtttttt gttttttttt gtttgtttgt tttgggtttt tttcctgaaa tttcctgata 540
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<210> 3000

<211> 642

<212> DNA

<213> Homo sapiens

<400> 3000

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 agatgagaat tcagataaag agatggaagt agaagaatct ccagagaaaa taaaagtaca 180
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<210> 3001

<211> 579

<212> DNA

<213> Homo sapiens

<400> 3001

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tcaggtttct	ttttttgggg	gagacagggt	cttgctctgt	cacccagact	ggaacacagt	180
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cagatttgca	gcttactgtg	ccnaaagtgg	actggctgcc	ggggcccntc	aaatgccctc	540
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<210> 3002

<211> 784

<212> DNA

<213> Homo sapiens

<400> 3002

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tttctatct	ccccctcct	tcctacccc	tttcccttt	tccttctct	ctttttctct	180
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ttgaaaacca gttccccctt gtcttttttg tcncccnagg antggaattc cattggcnca 720
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<210> 3003

<211> 579

<212> DNA

<213> Homo sapiens

<400> 3003

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<210> 3004

<211> 698

<212> DNA

<213> Homo sapiens

<400> 3004

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catttgggtca ttgggaatta ctgctattga actagccaag ggagagccac ctaactccga 180
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 aaaaaaattt tgctgtggct gaanccncc tgcgccgc 698

<210> 3005

<211> 756

<212> DNA

<213> Homo sapiens

<400> 3005

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 aaaaaaaaac cettatactc acctgcgttt tcatttgttt gacatttgtc tattattgga 420
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 gtaaaatccc aagtcatttc ttttttact ctattcagca acagaattaa gtggatgaag 660
 atattctact gtgcattaaa tcttgaactt ttataaaaca tgttcaaaaa ttgtacaaaa 720

naaattccnc ctggntaaan tctttcccn aataca

756

<210> 3006

<211> 706

<212> DNA

<213> Homo sapiens

<400> 3006

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 ctgggtagag tgggtgaaag aaatggttgc caactgggac agcctaanaa gtggtcctgc 420
 cagcactttc aatgatagag tttttgccag tgaattgaat gcnggaatta taaaaacaga 480
 tcaaactatg aaaagatgat gtttaaagaa gctttgaaaa cagggttttt tgaatttcag 540
 gccgcaaaaa ataantaccg tgaaattggc tgtggaaggg atgcacanaa aacttgtgtt 600
 ccggtttatt gaanttcaaa cacttctcct ccctccattc tgtccacatt tgtgtnaaca 660
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<210> 3007

<211> 665

<212> DNA

<213> Homo sapiens

<400> 3007

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acatgaatac atgagtatgg aattattgca agaagctggt gtctccgttc ccaaaggata 180
 tgtggcaaag tcaccagatg aagcttatgc aattgccaaa aaattaggtt caaaagatgt 240
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 caaagganga gtgaagatag ttttctctcc agaanaanca aaagctgttt cttcaciaat 360
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 gctgctgaga ctctgaagc aataattaaa gaacctattg atattgaaga aagcatcaaa 600
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 canca 665

<210> 3008

<211> 497

<212> DNA

<213> Homo sapiens

<400> 3008

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 ctctggagta tgggaagcca caatacacag aggtgatgt catcccctgc gcaggcgaag 360
 agcctgggtga agcccaggag agagaggcac ttcggggcgc agtcctaaat ggcggccctc 420
 ccagcacgcg catcacacct gaattctcta aatgggccag tgatgaaatg ccatcnccca 480
 acnntggtga aagcagc 497

<210> 3009

<211> 495

<212> DNA

<213> Homo sapiens

<400> 3009

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gttttcttgg aggctttttt ggtccaattt gtgagatcga tattgttctt aatgatgggg 120
aaaccaggaa aatggcagaa atgaaaactg aagatggcaa agtagaaaaa cactatctct 180
tctatgacgg agaatccgtt tcaggaaagg taaacctagc ctttaagcaa cctggaaaga 240
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ctcagagcag aagttatgac tttgaattta tgcaagtga naagccatat gaatcttacn 420
tcggtgccaa tgtccgcttg aggtattttc ttaaagtgac aatgntgaga agactgacag 480
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<210> 3010

<211> 612

<212> DNA

<213> Homo sapiens

<400> 3010

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aacggactaa tacagtaaatt tggtaccagc agagtggggc attgctgaaa agataactga 180
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cagaagaana caggaaaatg tgggaaagt ttggaacttcc tagagacttg ttgaatgcct 300
ttgacaaaaa tgctgattgc gacatggaca ataaaatgca ggctgagatg gtctcagatg 360
gagatgagga actttctgga aactggagta aaggtgattc ttgctatgtt ttagcaaaaa 420
gactagcgtc attttacctc tgccctagag atttgtggaa ctttgagaaa gatgatttag 480
ggtacctcgc anaanaaatt tctaagcagc aaagcattcc agaagtgagt tggatactgt 540

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taagggcant cagttttaaa agggaacag agcatntaaa ttcanaaaat ttgttancct 600
gatctggcan aa 612

<210> 3011

<211> 473

<212> DNA

<213> Homo sapiens

<400> 3011

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tgctctgggt gccgctgctc aagctgccct cgtcagagtc cagcaagggt cccttgccag 180
tctcaccggt ccactcgttg ctggaggaat tcttcaggac ttttaaagac ctggatgaag 240
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ttgcctcaaa gcttgtgtaa gatttaacat taagatttta ttttatgata tgacttcagt 360
tagcaactat cctggtaatt aggcaaaaat gtagcttctg aaaacatgga catttttgac 420
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<210> 3012

<211> 727

<212> DNA

<213> Homo sapiens

<400> 3012

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ctccagttaa gacttgagat gtccacagtg gcagccacta gcttgactgc aacttacgag 180
agaccctgag ccagaggcac tcagttaagt catacacagt ttcctgaccc gtaaacctg 240
tgacacaatg aaggtttgtt gttttggggg taatccgtta ttcagcaata gataacgaat 300

acagaaggct tgtaattgta taaccaacgt gagtttataa gcggatatct gacctcattt 360
 gttttctcct gaaaaagtta tagaaaaatc acaagactgc aagtcactct ctctctttct 420
 tttgtgggga ataaacaagt ntaattacaa tttctaaacc tattgtttta ttctcaaata 480
 tnattacnat ttaaacagga tattgtanag ctccatcata gggattaaca ctnattagaa 540
 ttaaagaacg tttttgtgaa tgtcagcttt ttttttttta aataaacact cntcccttga 600
 taatgttttt ctttttcata aaattaaaaa aaaaatgtgg gttgtantan gtgtatatat 660
 ttatgttggg acatgaaaat nttttgatac agggcntgac gtgttntaac cccctcctgg 720
 gaaaaat 727

<210> 3013

<211> 539

<212> DNA

<213> Homo sapiens

<400> 3013

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 ggttgccatt aggggactcc tgaggtccta tctccaggct gcggtgactg cactttccct 180
 ggagtggaag ctgctggaag gcggaccggc cgccatgtcc acgttcaggc aggaagacgt 240
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 gtgccggcag aagggcacgg gcaaggagta cgcanccaag ttcatacaaga ancgccgcct 360
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 ggagatccgg caccccaaca tcatcaccct gcacgacatc ttccanaaca agacggacgt 480
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<210> 3014

<211> 383

<212> DNA

<213> Homo sapiens

<400> 3014

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cttcaggcgg cccatggctg tcgatattca accagcatgc cttggacttt attgtgggaa 120
gaccctatta tttaaaaatg gctcaactga aatatatgga gaatgtgggg tatgcccaag 180
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tgattggctc tatcttggat ttatggcaat gcttcctctg gttttacatg ggtcctccat 300
ngaattggtac tcggggaaaa aagattccag cgcacttttc caacacatca ctgcattatt 360
tgaattgcnc atnggcacct ata 383
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<210> 3015

<211> 767

<212> DNA

<213> Homo sapiens

<400> 3015

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tgccttagaa cataatttta gtgccatcta tgggtgattg actttaccag taaaccacat 180
tttttcagaa cagagatttc cagtgccac catgaagact ttgcttagaa ctgggtcaga 240
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ctgtgaggaa ctttcttcca agatnatgtc cagtttggaa gatgaaggct tttctaattt 360
gttgttcgtg gatagaatta tttatattat tactgtaatg gttgattgca ttgacttctc 420
accatataat attaaatatc agcccaaagt taaatcacca cagagacctt cagattggtc 480
caaaaagaan aatgagcccc tagggaaatt gacttcttta tttaactta ttgtgaaagt 540
gatctattct ttccacacac tgagcttcaa gggaagcaca ttctgatncc ctcttccta 600
ttggcaactc natccccggc attatttccc gtgttcttgg gcatatttct tttgccttct 660
atgatccgaa aaatatattg aactttaacn agacctctgg ctttttttat gaaaactcca 720
agcttgatna aattcccaaa gtttnttggt ttctgaaaca cnanttt 767
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<210> 3016

<211> 585

<212> DNA

<213> Homo sapiens

<400> 3016

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gactcaccct gggccggggg tgaggcttgg actgtttctt tttccaaaag aggagctcaa 60
aagagaaaagt tcatctagaa atctcaaagc catgtctcag gatgaactan agtatgccct 120
tacaggggat cagtgtcatt caaggatgtg actgtggact tcaccagga ggagtggcag 180
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aaaaaagcta tggacccaaa aanttttccc aagttacagc tacctagaag aagatgggaa 360
aactgaanat gtcttagtga agttcaaaga ataccaagac aggcattcta gaccctcat 420
attcatcaac cacaaaaaac taattaagga gagaagtaat atttatggta aaacatttac 480
tctaggcaag aaccgtatta caatactatg ttaatatnaa cctgatggaa aagttttgaa 540
aaatatttca gaactagtcn ttagaaatat aagcccccta aaana 585

```

<210> 3017

<211> 755

<212> DNA

<213> Homo sapiens

<400> 3017

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attatgatgg aagattaaag tgtggtgaca tgattgtggc cgtaaattggg ctgtcaaccg 60
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tgaccgttat ttgttggcct ggcagccttg tatagatttt ggaaatttgt ttcaaattctt 180
gcatcttcct ttttagatt tttgaaagaa aacccttttg ttcatattgt tttgtggttt 240
aggagctgct gacactgctg gtatacacag ggccaaaacc cactaagatt gtccgtttat 300

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gtttatttaa atggtttcct aagttagtta catttctttt agcttggaag cagtcttcca 360
 ctaacctttg tgagtttata ttttcagaat tcagacttag ttgtttaaag gttacctatg 420
 gtaatgagca aagctcaccc aaactgtgcc ccanatggag taaagacctt ctggtgggtc 480
 tttgttttca gtaactgaat catanaacga attctgtatc cctcaggcct gatgtcagca 540
 aagccagtaa caacagcgtg tactgccact gtcataacca ataccatgaa atgaatatac 600
 tttaaatttt ggtgataact gtccccatt ttttttgaa ccacagtctc actctcaccc 660
 angctggaat gcantggcac aatctcanct cactgcaanc tccgcctcct ggggttcacg 720
 ccattctccc acctcancct cccaattac ttgga 755

<210> 3018

<211> 469

<212> DNA

<213> Homo sapiens

<400> 3018

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 gtattttacc caatactgtt agtgtataat aatttacaga atgaatttta tttacttgtg 120
 gtttttttct taatgtaaca tttcaaggag cactatatat atacacacat atatatacac 180
 cttggcttat gactgaaata atggagcaaa ttattaaata cagacagact tgagagataa 240
 ctgaaaatta aaagaactcc tctgagagaa aaaaaaatat gacactgtta tgatgtttaa 300
 taaagttgca tgatcatttt tcacatatct acttgaggct aaaatacatt tgcatactt 360
 atgttttaca aatatntttc ttttaagggt aatatcccc catcccnaaa cagatnctag 420
 gatnaaaatt ccctaagaaa cacttatttg accctgaatt ttaaaaatt 469

<210> 3019

<211> 439

<212> DNA

<213> Homo sapiens

<400> 3019

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agtcgtggct gcagcgctga ggcgagaggt tgggtgggtgt ctccggccat aatgaccag 60
gctgagaagg gtgatacgga gaacggaaag gagaaggcg gcgagaagga gaaggagcag 120
cgcggcgtga agcggcccat cgtgcccgcg ctggtgccgg agtcgctgca agagcaaadc 180
cagagcaact tcatcattgt catacatcca ggttcaacaa ctttaaggat tggtcgagcc 240
acagacactc ttcctgccag cattcctcac gtcattgccc gaagacacaa acaacaaggg 300
cagcccctat acaaggacag ttggctccta agggaggagc taaataaacc agaaagtant 360
tgaaccaaag acaaattggc cttaaantgg tggatcaagc aatatggtct aaaaagatgt 420
ccattgttac aagacgcnt 439

```

<210> 3020

<211> 803

<212> DNA

<213> Homo sapiens

<400> 3020

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cttgtattat actaattatc ttcattatta acgatcatat tagagccact gacatgtccc 180
aaattatatt aaaataaaaa cctgcattgc tctgacatga agctcaattc aatgtaataa 240
acaaattagg tattaacgt tataatttaa aaaacttcta cgatatcacc agaaatcctg 300
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agacaatact tanatctaaa tgcaaaatct ancatgcana agctttttta ggattttaga 660
ctgtcccaa gaacttggct cgagatggga ttaccgaat tacaatgcng ttttccactg 720
gttactcaa ctgatcttat ctcatcntg ttactcactg tgcccntnga accccaaaag 780

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tggaatatatt tgtctcntta ttt

803

<210> 3021

<211> 639

<212> DNA

<213> Homo sapiens

<400> 3021

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acagaaacaa	gtggtacagg	caacagctga	acagatgcgt	ctcgcctcaag	tgatctttga	180
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tatattgctg	gaagggaatt	cagacacaac	ttcatgggag	actgtagggt	gtaagaaaaa	360
gaattttgca	aaagaaaatt	cagaaaacaa	agagaataga	gagaagaana	gcgagaaaga	420
atcgagtcgt	ggacgtggaa	acnacaaccg	gaaaggaaga	ngcggcaatc	gtggcagana	480
atttagaggt	gaaaaaaatg	gaattgattg	caatcaagtg	gacnaacctt	cagatcgtgg	540
caagcgagcc	cgggggttnaa	gatttggacn	tggcanaagg	anaagggcag	gaaggttctc	600
aaccaagggc	atggggacat	ttaatcctgc	anactattc			639

<210> 3022

<211> 585

<212> DNA

<213> Homo sapiens

<400> 3022

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tcccaccccc	agaaggagct	cagatgggct	tgtgtgcaga	atgcanaagc	ttggtaccca	180

tgaacactcc catctgcgtg gtgtgtgagg cccctcttgc tctacagctg cagccacagg 240
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 tctgtggctc ctgtggtatt tgtgtnaant ccctagtgaacttta 585

<210> 3023

<211> 464

<212> DNA

<213> Homo sapiens

<400> 3023

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 cctgctctcc ccgggctgcg ggccatggcc acggcggaac ggaaagccct cggcatcggc 180
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 tcatcaaccc acagttgaaa atgtccttta ttgttttctc caccccaaga acaaccttta 420
 tgaanctgac ggaanacaga aaaccantcc ctccnggcct anaa 464

<210> 3024

<211> 840

<212> DNA

<213> Homo sapiens

<400> 3024

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 cctttcacct tctgttgctt ctccaagtcc caaagaagtc aattttgttt caaggggagc 180
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 cctgccccgg atgggtcttg ggaaaaaaaa attgcttcct catgaatgaa cagggtttct 780
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<210> 3025

<211> 622

<212> DNA

<213> Homo sapiens

<400> 3025

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 cctaaccacg tcttccctgg cctgtcttca ctcttctccc cagaatcacc acttctgcac 120
 tgggtgtctga aggtgtattg agtgattttg tggagggcag aagtaggaag tctttgggac 180
 aaaactgtat ttaccttggg atctgtgaac aagaggaacc tcagcagcca ggacaggcag 240
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 ctgccaagca tgcctcactg caaaccacaa gaagtccatg ctagacaaag gaganagtan 420
 ctgcctgtg tgccgatca gttaccagcc tgagaacata cggcctaata ggcatgtanc 480

caacttagtg gaaaactcag ggaggtcaag ttgagcccag aagggcanaa agttgatcat 540
 tgtgcacca tggaaanaaa cttctactct tctgtcanga ngacgggaag gtcatttgct 600
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<210> 3026

<211> 631

<212> DNA

<213> Homo sapiens

<400> 3026

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 ggaggggggtg ccatggccgg gcagcagttc cagtacgatg acagtgggaa caccttcttc 180
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 cgagatcaga atgccgagca aattccatta agaatatca gaaaagtata tggaaggtgt 300
 atgtggtatc gtttacggtt attaaaaccc cagccaaata ttattcctac agtaaagaaa 360
 atagttctgc ttgcaggatg ggcattgttc ttattccttg catataaagt ttccagaaca 420
 gaccgagaat accaagaata ccatecttat gaagtattaa atttggatcc tggagccaca 480
 gtagcacaaa ttaaaaaaca atatcgtttg ctgtcactta aatatcatcc agataaagga 540
 ggtgatgagg ttatgtcatg aggatacaaa acttatnctg ctttaaccga tnaaaatccc 600
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<210> 3027

<211> 491

<212> DNA

<213> Homo sapiens

<400> 3027

gtcagctgg tagtttgacc tccgttggtg caatgccaga natgggattg tcagccacca 60

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 tcccctacag catcttggtg cttcacacac catttaggag gccaccctaa cgaggcaaga 180
 ngacatgggg gtgtgcanaa nttctgttct tagtgagaat ggctggcctg agaatccagc 240
 tcacctcctc tgcccacagt ctggactgct tgtgggaagg ccatctcctc ctgtctggtg 300
 gtacctccac tctgggcagg ganggcctgt ctgtgactcg ctctggaccc cacttcccgc 360
 tctggccaag ggctgtcttc tgtgcacata gctcaaganc ctgcagcant tccctgtatg 420
 ggtggatgtc ctcaggggcc aanaanaaaa naatggggac aacagaaacc tgctttgtag 480
 gggattatgt t 491

<210> 3028

<211> 711

<212> DNA

<213> Homo sapiens

<400> 3028

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 ttccactggc caggattttc ctacatagtc agaacttaca cattactaga ggcacacca 180
 ccaaggagta ttgtgtctac ttttatctgt gcaccagcca caaataacca cattggaaag 240
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 ggggccttgt tggcaactct gcanttggga agggcacctg ccggaagaaa cagnctctta 480
 cacaccccc actctactta tcatccctgc tcacacaccc ttgtccaagg ctttatgcct 540
 cggatttatt tttcccaatc cagaagnaca gtgatanatg cnttttcccc aggctgtctc 600
 aaaaaggteg ctcaatgtnt actgttgtca aaattgctga aatctcccc cccttttggt 660
 ttttgagca nttaaaaatc tntccactgt nacttatttc ctctctcang c 711

<210> 3029

<211> 666

<212> DNA

<213> Homo sapiens

<400> 3029

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taggaggagc ccgagccgta agggaagccg tgatgagggc cgtgttgacg tggagagata 120
aagccgagca ctgtataaat gacatcgcat ttaagcctga tggaactcaa ctgattttgg 180
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agggacacaa agacactgtg tactgtgtgg catatgcgaa ggatggcaag cgctttgctt 300
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cttgttcctc cagtgacttt gggttgtggt ctctgaaca gaantctgtc tccaaacaca 480
aatcaagcan caagatcatc tgctgcagct ggacaaatga tggtcagtac ctgactgggg 540
acagaaagtt tccttctacc agctgaatgg aaaacagatt ggaaaggatc gggcacagaa 600
ctttgaccct gctgcatcan ctactttact aaangcnaat tcnttttgct ggggggtcaa 660
acaanc 666
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<210> 3030

<211> 669

<212> DNA

<213> Homo sapiens

<400> 3030

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tattccaaca gtcagtagta caaacaggcc gtccatgagc ttgtgcgttg cgtagcactg 60
acaagaattt gctatggaga ctacattgg aaactagcag aggcacatgt taatctggct 120
caaggctacc tccagctgaa aggactgtca ctgcaagcaa aacaacatgc agaaaaagcc 180
agacaaatcc tcgccaactc cattgtgcct ccctatagtg agaatacaga tgttttcaag 240
ttttccattg agcttttcca taccatgggc agagctttac tctcccttca aaagtatcct 300
```

tttgcctcta acttttatac atagaaatac tattcacgta acacttacac gccaaagtaaa 360
aagctgatgc tgatggatga cttaggaagt gtgattggaa gtatgggagc caaggaagtt 420
caggacatgg ggtgtagaat ctagaaccaa gtggaaaatt tcctgaacac aattcagatt 480
taaggaagct gcagagaatt tgacaaaagc agagagactt tcaaaggagc tgctacaatg 540
tggaagaatt atgaaggaag aatggataga aattgaagca cggatcagat tatcatttgc 600
acaggtgtat caaggtcaga agaagtcaaa agaactttgt ccnctntcc ancactttgg 660
gaatatgtt 669

<210> 3031

<211> 568

<212> DNA

<213> Homo sapiens

<400> 3031

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gccacagccc ctgcccctgc tgcggcgcgcg cgaggcgagg cgatggccaa ggtgtcgggtg 180
ctgaacgtgg cggtcctgga gaacccgagc cttttccaca gccccttccg gttcgagatc 240
agcttcgagt gcagtgaac cctggcggac gacctggagt ggaaaatcat ttatgttggc 300
tcggctgaga gtgaggaatt tgatcagatc ctagactcgg tgctggtggg ccctgtgcca 360
gcagggaac acatgtttgt ctttcaggcc gacgccccca acccatccct catcccagaa 420
actgatgccg tgggtgtgac tgtgttcctc atcacctgca cctaccatgg acaggaattc 480
ctcccagtgg gctactacgt ctaccacgag ttactccac cctgaactgc gtttagaaac 540
cccgccccat naaacccnna tttctccc 568

<210> 3032

<211> 671

<212> DNA

<213> Homo sapiens

<400> 3032

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actcactggg gcttccttcc gtctcgctcg gagtttccct ctgcgttcgc tccgcgctgc 60
tggaggctgt cgtcccaatg ctccccaaac ggcggcgagc gcgggtcggg tcccctagcg 120
gcgatgccgc ttcctccacg ccgccctcga cgcgcttccc gggagtcgcc atctacctgg 180
tcgagcctcg catgggtcgc agccgccggg ccttctcac aggcctggcg cgctccaaag 240
gcttcccgct ccttgacgcc tgcagctccg aagcgacaca tgttgtgatg gaagagacct 300
cagcagagga ggccgtcagc tggcaggagc gcaggatggc agctgctccc ccgggttgca 360
cccccccagc tctgctggac ataagctggg taacagagag cctgggagct gggcagcctg 420
tacctgtgga gtgccggcac cgcctggagg tggctgggcc aaggaagggg cctctgagcc 480
cagcatggat gcctgcctat gcctgccaac gccctacgcc cctcacacac cacaacactg 540
gcctctccga ggctctggag atactggncg agгнаааааа ctttgaaggc agtgagggcc 600
gcctctcaa cttctgcaaa ncaacctcng tgctcaaagg ccttccagcc ctgtcacaan 660
cctgaagcaa n 671
```

<210> 3033

<211> 366

<212> DNA

<213> Homo sapiens

<400> 3033

```
aaaaagggag agaggacaag ggtgacaagt gggggtgaga gatcaaagat ggggcgggag 60
tgtgcctagg gttgtctctc catgagtgtc ctcttccct actcttctg ttccaggtgt 120
agcgtcggac catgtggaag tttctgaggc tggggagccg gataatgggg ggtggggccc 180
gttggggggg aaaggggcaa tagcttctt tcacaagcta acctccgctc ttcccagtcc 240
tcttgactaa aatgggggaa cacattgggc ctggcaccaa tggggacttt gccccgccgg 300
agcccccgcc gagaggaacc cctgccccaa cctagggagc ttctatgagc tgcacntct 360
ntgcnc 366
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<210> 3034

<211> 495

<212> DNA

<213> Homo sapiens

<400> 3034

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ctggaatgag gagctgcaga cgacgagggga gctgcctcgc aagaacctgc ctgagcggct   60
gctccgagaa agggccatat tcaaggtgca cagcgacttc accgcggcag ccaccagggg  120
cgccatggcc gtcattgacg gcaacgtgat ggccatcaac cccagcgagg agaccaagat  180
gcagatgttc atctggaaca acatcttctt cagcctgggc ttcgacgtcc gagaccacta  240
caaggacttc gggggggacg tggcggccta cgtggcgccc accaacgacc tgaatggcgt  300
ccgcacgtac aacgcggtgg acgtggaggg gctgtacacn ctgggcacgg tgggtggtgga  360
ttaccgcggn taccgggtca cggcccagtc catcatcccc ggnatcctgn ancgggacca  420
ggagcagagc gtcattctacg gntccatcga cttcggcaag accgtggtgt cacacccgcg  480
gtacctggan ctgct                                     495

```

<210> 3035

<211> 395

<212> DNA

<213> Homo sapiens

<400> 3035

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taagtaacgt cagcctgaga actgagtagc tgtactgtgt ggcgccttat tctaggcact   60
tggttgggcag aatgtcacac ctgccgatga aactcctgcg taagaagatc gagaagcgga  120
acctcaaatt gcggcagcgg aacctaaagt ttcagggggc ctcaaattctg accctatcgg  180
aaactcaaaa tggagatgta tctgaagaaa caatgggaag tagaaagggt aaaaaatcaa  240
aacaaaagcc catgaatgtg ggcttatcag aaactcaaaa tggaggcatg tctcaagaag  300
cagtgggaaa tataaaagtt acaaagtctc cccagaaatc cactgtttta accaatggag  360
aagcagcaat gcagtcttcc cattcggaat cgnnn                                     395

```

<210> 3036

<211> 568

<212> DNA

<213> Homo sapiens

<400> 3036

```

ggggctggac tggcggagca ggtgggggtcc gcggccgccg gagcgttccg gtcggcgtct 60
gggcatctcg gcctcggcag aaagcgcgac cgccctgctg cgcggggccc gcggcgatgc 120
cgttcctgca cggttccgg aggatcatct tcgagtacca gccgctggtg gatgcgattc 180
tgggctccct ggggatccag gaccccgagc ggcaggagtc tctggaccgg cccagttatg 240
tcgccagcga ggagagccga atccttggtc tcttgagct gctggagagg aaagcccact 300
ctccctttta ccaggaaggc gtcagcaacg ccctgctcaa gatggctgag ctggggctga 360
cgcgggcggc cgacgttctc ttgcggcatg gggccaatct caactttgaa gaccagtc 420
cctactacac ggccttgac atcgccgtcc tgcggaacca gccggacatg gtggagctgc 480
tggtggcatc acggggccga cgttaatcgg agggaccgga tccacgagag tagccccttg 540
gacctggcca ncnagacct taacncct 568

```

<210> 3037

<211> 538

<212> DNA

<213> Homo sapiens

<400> 3037

```

gtaagtccag agagtttagt gtccacacct agactggaat tgaaagacac cagcagaagt 60
gatgaaagtc caaaaccagg aaaattccaa agaactcgtg tccctcgagc tgaatctggt 120
gatagccttg gttctgaaga tcgtgatctt ctttacagca ttgatgcata tagatctcaa 180
agattcaaag aaacagaacg tccatcaata aagcaggtga ttgttcggaa ggaagatggt 240
acttcaaaac tggatgaaaa aaataatgcc tttccttgct aagttaatat caaacagaaa 300

```


atgcaggaac tcaataacga aataaatatg caacagacag tgatctatca agctagccag 360
gctcttaact gctgtgttga tgaagaacat ggaaaagggt ccctagaaga actgaagcag 420
aaagacttct tctaattgca actgggaaga gaacactttt gattgatgaa ttgaataaat 480
tgaagaacga aggacctcng aggaagaata nggctagtcc cccnagtga tttatgcc 538

<210> 3038

<211> 483

<212> DNA

<213> Homo sapiens

<400> 3038

acgcggcggc gtgccagcct anccactcta gcgacggcgg ggaanagtgt gtacgtggtg 60
ggggcttcct cgggtggcggg catggaggct tcgcgctgcc ggctcagtcc cagcggcgac 120
agtgtcttcc atgaagaaat gatgaatatg cgacaggcta ngctggatta tcagaggcta 180
ctacttgaga agaggcaaag gaaaaagcgc cttganccat ttatggtgca gcccaatcca 240
naagccangc tacgtcgggc aaagccaagg gccagtgatg agcacactcc cttggtgaac 300
tgtcatactc cccacagcaa tgtcatctta catggtattg atggtccaac tgctgtcctg 360
aaaccagacg aagttcatgc tccatcagta ngctcctctg ttntggaaga agatnctgaa 420
aacaccgtgg atnctgcttc caagccagga cttcnggagc gtctccaaaa gcatgatatc 480
tct 483

<210> 3039

<211> 534

<212> DNA

<213> Homo sapiens

<400> 3039

gatgaatgcn naggaaaagc agcttggcaa attgttatta tcaaccctta ctttgctaag 60
caagaaaact gaactgttac aagattaccc ttgaaatgtc taccacaaaa tgttggtttc 120

tataaaaagt ttggatatac tgtatctgaa gaaaactaca tgtgtcggan gtttctaaag 180
 taaaaatctt gtacgaaaat tgtcaaaggg gctaatagcta caangctaca ctcttcctaa 240
 anttgaaata ttttgttgct gcagccgant gacctccata aatactggac tgaaaaaacn 300
 ttgtaatact acnagtataa tgacntttaa aaaattactt tgggctgggtg ggacatgctg 360
 tgaatttaga ttacnaatga atattataaa ggggatgatt ttttaaccnaa ggaatatatt 420
 ttttaactiga atcttttcct gcattgtatt tttctaaan tttggcttcc tttcttggtg 480
 atccanaatt tgggttataa nganttatat gtctgctatc tgtgttgctc nttt 534

<210> 3040

<211> 593

<212> DNA

<213> Homo sapiens

<400> 3040

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 cgcctgggtc cggcaccagc gccgcccagt gtggtttccc ataaggaagc tcttcttcct 120
 gcttggcttc cacctttaac cttccacct ggggancgtc ctctaacaca ttcagactac 180
 aagtccagac ccagganagc aaggcccana aagaagtcaa aatgggggtt atattttcaa 240
 aatctatgaa tgaaagcatg aaaaatcaaa agganttcatt gcttatgaat gctcgacttc 300
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 ttgcgtggtc tcgggaattc ctcaaataat ttggaacttt ttttggcctt gcaccatctc 420
 ttttaacagct ggagcgatta aaaaaaagaa nccagccttc ctggtcccga ttgttccatt 480
 aagctttatc ctcccctacc antatgactt gggctatgga acccttttan aaagaatgaa 540
 aggtgaanct gaagacattc tggaacaga aaanaattta ttgcnctgc caa 593

<210> 3041

<211> 689

<212> DNA

<213> Homo sapiens

<400> 3041

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 caaagaggcg gtgcagactg cggctaagga actcctcaag ttcgtgaacc ggagtccctc 180
 tcctttccat gctgtggctg aatgccgcaa ccgccttctc caggctggct tcagtgaact 240
 caaggagact gagaaatgga atattaagcc cgagagcaag tacttcatga ccaggaactc 300
 ctccaccatc atagcttttg ctgtaggggg ccagtacgtt cctggcaatg gcttcagcct 360
 catcggggcc cacacggaca gccctgcct ccgggtgaaa cgtcgggtctc gccgcagcca 420
 ggtgggcttc cagcaagtcg gtgtggagac ctatggtggt gggatctgga gcacctggtt 480
 tgaccgtgac ctgactctgg ctggacgcgt cantgtcaag tgccctacct caggtcngct 540
 ggagcagcaa ctggttgac gtggagcggc ccattcttcg catcccacaa cctgggcac 600
 catcngcag cnanatatca acnaagaaat ttggggccaa cacagagatg catctaagtc 660
 ccaattcctt gccnaaaagc atccaagga 689

<210> 3042

<211> 657

<212> DNA

<213> Homo sapiens

<400> 3042

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 cacatgccat ggacaatatt accaggcaga accaattcta cgatacccaa gtcacaaac 120
 aagaaaacga gtcaggctac gagaggagac cactggaaat ggagcagcag caggcctatc 180
 gtccagaaat gaagacagag atgaagcaag gagcaccac cagcttctc ccgcctgaag 240
 cttctcaact caagccagac aggcagcaat tccagagtcg aaagaggcct tatgaagaaa 300
 accggggacg ggggtacttt gagcaccgag aggataagag gggccgctct cctcagcctc 360
 ctgctgaaga ggatgaagat gactttgatg ataccttgt tgctattgac acctataact 420
 gcgacctcca cttcaaggtg gcccgagatc ggagtagtgg ctatccgctc acaattgagg 480

gctttgcata cctgtggtca ggagcccgtg ccagctatgg ggtcagaang ggccgtgtat 540
gcttcgagat gaagatcaat gaggaatct cctgaagca cttccgtcta cagagcctga 600
ccccacgtg gtccgtatcg gctggtccct ggactcctgc aacacccann cttnggc 657

<210> 3043

<211> 526

<212> DNA

<213> Homo sapiens

<400> 3043

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agagccggcg ccatggtgga gaaggaggag gctggcggcg gcattagcga ggaggaggcg 120
gcacagtatg accggcagat ccgcctgtgg ggactggagg cccagaaacg gctgcggggc 180
tctcgggtgc ttcttgtcgg cttgaaaaga cttggggctg aaattgccaa gaatctcatc 240
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ggagctcagt tcttgattcg tactgggtct gttggccgaa atagggtga agcctctttg 360
gagcgagctc agaatctcaa ccccatgggtg gatgtgaagg tggacactga ggatatagag 420
aagaaaccag agtcattttt cactcaattc aatgctgtgt gtctgacttg ctgctccann 480
gatgtcatag ttnaagtgga ccagatctgt cacaaaaata gcatca 526

<210> 3044

<211> 510

<212> DNA

<213> Homo sapiens

<400> 3044

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acagangtgc ctgcttcccc ttctgccatg attggaagtt tcctgaggcc tccccagcca 120
tgtggaactg acaacttgcc ttgatgatt ttcaaganag ttgtgctatg atgtggcaaa 180

agtatgcagg aagcaggcgg tcaatgcctc tggaacaag gatccttttc cacggtgtgt 240
 tctatgccgg gggctttgcc attgtgtntt acctcattca aaagtttcat tccagggnntt 300
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 gccctcctct caacatccat tatctcaagc tcatcgacag ggaaaacttc gtggacattg 420
 ttgatgccna gttgaaaatt cctgtctctg gatccaaatc agaaggcctt ctctacntcc 480
 actcatccan aagtggcccc ttctnnaagt 510

<210> 3045

<211> 602

<212> DNA

<213> Homo sapiens

<400> 3045

aaaaaaaaa aaaaaaagag cctggggccc aggactgcag cggcttcgga aggtgggctc 60
 tgccagcggg accatgctgc tccgagccgc ttggaggcgg gcggcagtg cggtgacagc 120
 ggctccaggg ccgaagcccg cggcgcccac tcgggggctg cgcctgcgcg ttggagaccg 180
 tgctcctcag tctgcggttc ccgcagatac agccgctgcc ccggagggtg gccagtgct 240
 gcgacctctc tatatggatg tgcaagctac aactcctctg gacccccggg tgcttgatgc 300
 catgctccct tacctaatac actactatgg gaaccacac tcccggacac atgcttatgg 360
 ctgggagagt gaggcagcca tggaacgtgc tcgtcagcaa gtagcatctc tgattggagc 420
 tgatcctcgt gagatcattt ttactagtgg tgctactgaa tccgacaaca tagcaattaa 480
 ggggggtggc cgattctaca ggtcacggaa aaagcacttg atcaccaccc agacagaaca 540
 cnaatttttc ttggactcct gccgttcctt ggaaacttaa ggctttcang tccctncctc 600
 cc 602

<210> 3046

<211> 607

<212> DNA

<213> Homo sapiens

<400> 3046

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ttatgtatac tcaacattgt cttttctcca ttcgtgttgg tcatcatagt tttttctaca 60
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cgacctattc agagttggcc aggagcagca ggcaccacag cctgtgtgtg tgcagataca 180
gtgtactact accaaatggg gccaggttg actgctgtac tgcagactgc aatggcagct 240
ggaagtttag gtctctctct accctggatct cattacttgg gccgttttca ggatcgttta 300
atgttgataa tgattctgga atgtggctat acttactgct ctattaacat taaggggtta 360
gaattgcagg aaacatcctg tcatactgca gaagctcgca nagttgatga agtttttgaa 420
gatgcttttg aacaanaata cacaagagta tgttccctta atgaacactt tggaaatgtc 480
ttgacaccct gtactgtttt gcctgtgaaa ttgtattctg atgccaggaa tgttctatca 540
ggcataattg atctcatgaa aactttaaaa naatttaaag gtgaactcat taaantacnt 600
gtgtgga 607

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<210> 3047

<211> 495

<212> DNA

<213> Homo sapiens

<400> 3047

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gcgggggctg aggggctgcc atggcggcgg cgggccggct cccgagctcc tgggccctct 60
tctcgccgct cctcgcaggg ctgtcactac tgggagtcgg gccgggtccca gcgcggggcg 120
tgcacaacgt cacggccgag ctctttgggg ccgangcctg gggcaccctt gcggctttcg 180
gggacctcaa ctccgacaag cagacggatc tcttcgtgct gcgggaaaaa aatgacttaa 240
tctctttttt ggcagaccan aatgcaccct attttaaac caaagtaaag gtatctttca 300
agaatcacag tgcattgata acaagtgtan tccctgggga ttatgatgga aattctcaaa 360
tggatgtcct tctgacatat cttcccaaaa attatgccaa naatgaatta ngaactgtta 420
tcttctgggg acaaaatcaa acattataat ctaacaatat gaccatactc nataagactt 480
ttcaanatna ccact 495

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<210> 3048

<211> 659

<212> DNA

<213> Homo sapiens

<400> 3048

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cattactana aagaatctta caaacaaagt tgaaggatat agtttctttg gtcccacgcc 60
tgcggcacat catcactgtt gatggaaagc caccgacctg gtccgagttc cccaagggca 120
tcattgtgca taccatggct gcagtggagg ccctgggagc caaggccagc atggaaaacc 180
aacctcatag caaaccattg ccctcagata ttgcagtaat catgtacaca agtggatcca 240
caggacttcc aaagggagtc atgatctcac atagtaacat tattgctggt ataactggga 300
tggcagaaaag gattccanaa ctaggagagg aagatgtcta cattggatat ttgcctctgg 360
cccatgttct anaattaagt gctgagcttg tctgtctttc tcacggatgc cgcattgggt 420
actcttcacc acagacttta gcagatcagt cttcaaaaat taaaaaagga agcaaanggg 480
atacatccat gttnaaacca aactgatgg cagcagttcc ggaaatcatg gatcgggatc 540
tncaaaaatg tcatgaataa agtccgtgaa atgaatantt ttcaccgtaa tctgtttatt 600
ctgggcctat nattaccaaa tggaacanat ttcaaaaanga agttntactc cactgttgc 659
```

<210> 3049

<211> 728

<212> DNA

<213> Homo sapiens

<400> 3049

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agagtttaaa atcttaaaac ccataagtgc cactaggaag gaaaccctgt atatacctac 180
attgacccaa gaaatattta cgcaatccct agcagaacat tgtttctgag gaggcataat 240
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tgagattgat ttgttggttc atgccaagtg tgttccacag gttgactttg aatgtggacc 300
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 ccagcacgat gcctccatag ttgaaagact acacaaaaag ccacaatcat tgcccggcct 420
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 tatctttcca tatatcctat tatttctgaa tatatgtcct ccaaattccc ataatatcc 660
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<210> 3050

<211> 602

<212> DNA

<213> Homo sapiens

<400> 3050

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 ttccccgtga tttggaactt tccaatccca gagaaaagtt gacaaaggga ctgcccagga 180
 ctgagtccat atggaagaag aacttcctct tttctctgga gacagtggca agccagtaca 240
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 agttttatac actacagtna atgatnagat ttttgtgctt ggcacaaact gctgtggctg 420
 tttgggggta ggtnacctcc agagcaccat tgaacctcgg anactggatt ctttanatgg 480
 caaaaaaata ccctgcctca gctatgggan tggccacat attgtccttg cacaacagaa 540
 ngaaaatctt tacctggggt cctaattgctt ataccgctt ggccatggng acaactantc 600
 nt 602

<210> 3051

<211> 670

<212> DNA

<213> Homo sapiens

<400> 3051

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acttgtaaac attcctatga ttgttactaa aatgtatfff catgtttaaa atgtttttgg 60
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aaaagatfff cactttaaat taattagtaa tattgagcgc tcaccctgtg cgtggccttg 180
tgctaaccat tagcactgca tcatttcaat tcttttataa gggcattcaa tactacaaaa 240
tcaacatgat ttcataaggt gcaaataaaa gttggtgaca gatttaatai aattttgatc 300
acaatttaca aatgatcttt gcaaatagtg gtcagacggc attagttfff cccttagtta 360
agctaaatta aagggactcc ctctgtttat gattatatta ttattattat tattattatt 420
tttgagggtg agtttcactc ttgttgccca agctggagtg caatggcgcg atctcggtc 480
accacaacat ccgcctctg ggttcaagcg attctctgc ctcagcctcc tgagtatctg 540
ggaatacang catgcgccac tacacctggc taattttgt attttttagtt ganatngggt 600
tttccacntt ggtcaggctg gtctccaaac tcctgacctc aggtgatncc gtccacctca 660
ncttcccaaa 670

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<210> 3052

<211> 626

<212> DNA

<213> Homo sapiens

<400> 3052

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tgtgaagtca actttatccc agacagttcc atccaagggg agaattaagt agagaaattt 60
gtctgcaatc tcaatctaaa gacaaatcta cgacaccagg aggaacagga attaagcctt 120
tcctggaacg ctttgagag cgttgtcaag aacatagcaa agaaagtcca gctcgtagca 180
caccacacag aacccccatt attactccaa atacaaaggc catccaagaa agattattca 240
agcaagacac atcttcatct actaccatt tagcacaaca gctcaagcag gaacgtcaaa 300

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aagaactagc atgtcttcgt ggccgatttg acaagggcaa tatatggagt gcagaaaaag 360
 gcggaaactc aaaaagcaaa caactagaaa ccaaacagga aactcactgt cagagcactc 420
 ccctcaaaaa acaccanggt gtttcaaaaa ctcagtcact tccagtaaca gaaaagggtga 480
 ccgaaaacca gataccagcc naaaattctn gtacagaacc taaagaagtg atacgtgaaa 540
 ttgagatgaa tgtggatgat gatgatatcc atagttcgaa agttattnat gaactcttcn 600
 gtgatgttct anangaangt gaactt 626

<210> 3053

<211> 483

<212> DNA

<213> Homo sapiens

<400> 3053

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 taccttcgaa tgtgggcca aa ggagaaagag gctcagaagg agacgattaa ggatcttccc 120
 aagatgaacc aggagcagtt catttgagct gtgcaagacg ctttacaaca tgttcagtga 180
 agaccccatg gagcaggacc tgnccacgc catcgccacc gtggccagcc tctgtctccg 240
 catcgagag gtggggaaga agttctcagc ccgcacaggc aggaagccca gggactgtgc 300
 cactgaggag gacgagccac cagcacccga actgcatcag gacgcancca ggggagcttc 360
 nccccccagc tgcaggagac cccaagcca aagcaggcgg agacacaccc ctcggaacag 420
 cccacagga aaaccangtt gtggtggaag ggggcancng cnaaggacan ggctcaccct 480
 ccc 483

<210> 3054

<211> 411

<212> DNA

<213> Homo sapiens

<400> 3054

gactgcagag ccggggctgg gctangcgcg cgcttggaga gcattgcgcg cggctgggcc 60
 cgcggccggc ggctcctcct cccactctgc tcctcctctt tttctcctc ctccgcctcc 120
 tcctccgcct cctcctcctc ctcttctctc tcctcttcaa ttctcccggg ggctcgactc 180
 ggctcgcagg cttcggagaa acccctactc cagtgcgca ctcagcgccc aagagggtcg 240
 ccttgggctg ggggcgcacc ccaggagggg gaggggtcca ggcagctggg ccgccgcgga 300
 cacctagcgg cttcagggtt aatcccgacc gcagccgtcg ccgcctcggg canattttgc 360
 gcccttgctt tgcgccccgg gcgctgaagc cgggcgggcg attttnactg n 411

<210> 3055

<211> 514

<212> DNA

<213> Homo sapiens

<400> 3055

ttttacaaaa cgctctcctt gttgaagaag aaggaccccc gcatttatca gaaagatgcc 60
 accttctata acagaacagc atcgatcatca gacagtgagg aggaccacaga agccttggag 120
 aagcagaaga aagtgcggcc catgtacctn aaggactacg agaggaaggt tatcttggag 180
 aaggcaggca aatatgttga tgaggagAAC tcagacgggg agacttccaa tcacagactc 240
 caggagacat cgtcgcaaag ttatgtggag gaacagaaac agctcaagga aagcttccgg 300
 gcatttgttg aggacagtga ggacgaggac ggcgctgggg agggcggctc cagtttgctg 360
 canaaacgtg ccaaaaccag gcaggagaag ccaggaggga ggccgactac atcgagtggc 420
 tgaagggaca gaaagagatt cggaacccan attccctgaa ggaactgacg cntctcaagg 480
 aatactggaa cgaccctnaa ttggatnaan ggga 514

<210> 3056

<211> 527

<212> DNA

<213> Homo sapiens

<400> 3056

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caatgttccc gagcctgatg gacatatcat atcaccactg ttggcaggat tttatatgtt   60
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aattgtgaag cttggacaaa tatatttcat tcaaagtgat gtggatttct acaatgaaaa  180
aatggattct attgttcagt gccgagccct gaacatcgcc gaggatctgg gacagattca  240
gtacctcttt tccgatnaga caggaaccct cactgagaat aagatggttt ttcgaagatg  300
tngtgtggca ggatttgatt actgccatga anaaaatgcc aggaggttgg agtcctatca  360
ggaagctgtc tctgaagatg aagattttat agacacagtc ngtggttccc tcagcaatat  420
ggcaaaaccg anagcccccga gctgcaggac agttcataat gggcctttgg ggaaataagc  480
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```

<210> 3057

<211> 572

<212> DNA

<213> Homo sapiens

<400> 3057

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ccttgagaag atatatggaa tagatcttac gatcccatth tgatctgttt cttgcagaat  180
gcagttcttc atgttcagtt caattaaaag atgtttgaaa tggctctaate tggctggcct  240
ctttggagca atgagcgtht gttttgttga atgagggact gaatgatgat ttagttactc  300
agctaatacta gtgtcctgag aaaaatgtga gttgttattg cctctgaaga gtaaaccgth  360
cactactgct gttccagaat gtttggactt aagacagtht gttgagagag atagaagatt  420
tggttaggth tagactthcc acctgccggc tcgcattaac agcagtgagg gtggcgagga  480
ctgccttatt tggcgcgctc ccnatgtthc aggcacactg ctttggtgct ttaanangct  540
gcttcacgta atctccccng cagcctcaga na                                572

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<210> 3058

<211> 487

<212> DNA

<213> Homo sapiens

<400> 3058

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ggactgagca ccttcgactt ccgcacgggc aagatgctta tgagcaagat naacaagagc   60
cgccagcgcg tgcgtacga ctctccaac caggtcaagg gcaagcccga cctgaacacg  120
gcgctgcccc tgcgccagac ggcgtccatc ttcaagcagc cggtgaccaa gattaccaac  180
caccacagcn acaaggtcna gagcgacccg cagaaggcgg tggaccagcc gcgccagctc  240
ttctgggana agaagctgag cggcctgaac gccttcgaca ttgctgagga gctggtcaag  300
accatggacc tccccnnggg cctgcagggg gtgggacctg gctgcacgga tganacgctt  360
ctgtcggcca tcgccagcgc cctgcacact agcaccatgc ccatcacggg acagctctcg  420
gccgccgttg aaaanaaccc cggcgtatgg ctcaacacca cgcanccctt gtgcnaagct  480
tcatggt                                           487
    
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<210> 3059

<211> 530

<212> DNA

<213> Homo sapiens

<400> 3059

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agcgaccgaa ctctggcggt ggtggttaag acggcnaagg cggcagcggc ggcnaacagct   60
ctggggtttg cgtctcgggg tgtgtcggcc gccgctgctg cttgggcctg gtatgtacag  120
atggctgggt aggattctcg gcaccatttt ccgtttctgc gaccggtcgg tgccccctgc  180
ccgggccctc ctgaagaggc ggcgctcaca cagcactctg ttttctacag tggacactga  240
tnaaatacca gccaaaagac caagattaga ttgctttatt caccaagtga aaaacagtct  300
ctacaatgct gccagcttat ttggattccc attccagctg accacaaagc ccatggtaac  360
ttctgcttgt aatggaacac ggaatgtggc cccttcagga naggtatfff cgaactcttc  420
atcttgtgaa ctgacaggtt ctggatcctg gaaacaacat gctnaaactg gggtataaat  480
    
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ctcctaattgg aataagtgc taccnaaga tcagagtgc agttccccca 530

<210> 3060

<211> 575

<212> DNA

<213> Homo sapiens

<400> 3060

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 tgctttcaag ctggtcatca tgatgaaact tagacacaaa aataaaaagc caggtgaagg 180
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 tcgagaggct gaattaaaga agaagtgggt tgaggagatg agggagaagc agcaagccgc 360
 ccgggagcaa gaaagacaaa aacgcaggac cattgagagc tactgtcagg atgtcctaag 420
 acgccaggag gagtttgagc ataaggagga agttttgcag gaattaaata tgtttcctca 480
 gctggatgac gaggccacga ggaaggctta ttacaaggag ttccgtaagg tgggtggaata 540
 ctctgatgtg attctggaag tcctggatgc ccnnn 575

<210> 3061

<211> 704

<212> DNA

<213> Homo sapiens

<400> 3061

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 gtaatggatg gaaagatgca accaaacagc tttccgtggc agtccccctt accatgcagc 120
 aatagcctcc ctgcaacgtg cacaactggc cagagtaaag tggcagcctg gttacaggac 180
 tcggaagaga tggacagggt tgcagaagat cttgcacatt gccagtcaaa ccttgtggaa 240

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 accatgtcac cagttcgctt gcattcctcc aacccaacc tttgtgcaga tattgaattt 480
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 caagaanaat tttgtctaata ccgcacagaa aagtttgnc cnattttttt cctccttttt 600
 ttggaaaagt tctgccattt aaataagcca tangctatta gaaaaaggag aagctgaaag 660
 ccaanatggt ttccgaagca ggatcacant taaaanggcc acan 704

<210> 3062

<211> 465

<212> DNA

<213> Homo sapiens

<400> 3062

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 cacgtcgtcg tgaggagcgc agtccggact cttcccga cccctccggc tccctttccg 180
 cacgcctcga ggccggcggcg gccaccgaga cagcagcgca ccttccccca tcccttcccc 240
 ttatccccca gcccaaaagg gcccggtctg cgccccaccc ccgcccgtcc gcccgctacg 300
 ccgcccgcct gtcggcgcan gcccanatgc gcgcgatgct ggaccagttg atgggcacct 360
 cccgggacag anatacaact cgtcaacgaa tcnaattcag tgatgacaga gtatgcaana 420
 ntcaccttct caactgttgt cctcatnatg tcctttctgg aacta 465

<210> 3063

<211> 684

<212> DNA

<213> Homo sapiens

<400> 3063

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tgtgggggct gcaactccat acctgcatca tcctgggtgat agtcacagtg gccgagttag 180
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tgccctgctg gcaggcatgc acacactgct ccagcaggcc ctccgtctgc cccccaccag 420
cctgaagcct gacatcttca gggaccagct ccaggagctc tgcatcccc aagacctggt 480
cggggacttg gccagcgtgg tatttgggag ccagcgcccc ctcttgatt ctgtggccca 540
ncagcagggg gcctggctgc cgcatgttgc tgactttcgg tggcgggtgg atgtacaatc 600
tccaccagtg ccctggctcg ctccctgcan ccgagcgtcc tgatgcactg aaactttcag 660
atgggtccnc atnccgcttt tgaa 684

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<210> 3064

<211> 693

<212> DNA

<213> Homo sapiens

<400> 3064

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ggaaaaaaat gagagacctc tgcctacaaa acctcaaacc agtcactttt gtcaattgct 60
aataccagct tacttatgat ttaaaaacaa ccaacagaaa acatcccact gactgtatgg 120
cactctatag tcaaaaaagg aaacttcctt attgggactt ttctttctta gtccagttgt 180
gttgacacat atgaacacag acaaagtgt atgcgganga aagcaagtgt tggtcagtag 240
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tggattgttt ttaaacctcc atactcaagc tgtctcttcg gcagggangt gaatactctt 420
gaaaggccaa cancaagtgt ttgtgggaca caacacagat aattttttct taagtcggcc 480
aanatgtact tctctgtgtg cacacccatg cacactcatg cacacagata catangtctg 540

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tatggctgta tttgctgtg attcanactt tcacaccatt aatggggaaa agcgtggnca 600
caaaaacana tgctaggaan cttggcttcc tcttcttggt gacctttttt gaaccaacct 660
cttttttatt atattcanaa tatgttttta ant 693

<210> 3065

<211> 516

<212> DNA

<213> Homo sapiens

<400> 3065

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ggttttcctt gtagttcgtg gtctgagacc aggcctcaag tggaaacggc gtcaccatga 120
tcgcacggcg gaacccagaa cccttacggt ttctgccgga tgaggcccgg agcctgcccc 180
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tccttccan aaggaattc cctgaaaaaa aaataanaaa accttttggt gaaatttttt 480
aaaaattccc nccattcct ttaaattntc caaatt 516

<210> 3066

<211> 882

<212> DNA

<213> Homo sapiens

<400> 3066

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tttgacatcc agctaagang gcccatctct tctcacctct ttcctagtca gtatattcag 120
caaatatitaa ttgagccctt actgtgggca aatcattgta ctggataatt gagaaaaata 180

gataattccc ttattcagta aatgtctact gagcacaatc tagtgaatca ttacagtatg 240
gcctcattgt tttgtttgag gtgtgttatt cataacaata ttttacacca ttcgtatcaa 300
tgtaattata gaacacaata tacgatcaag gataagtaat tgtgtgggta tctgccattt 360
aaaagtatcc agtatttgat cacattatta tatataatga aaaaatgatt taatctgtaa 420
taaactgggtt tattgtgcag tgactgtaat atactaaagt tataataaat tgtttactct 480
gcctcaccaa acacatgcta ggatataacc cccaaaataa gtattttaact ttgcattagg 540
tataaagnga nactgggtgc tataattaaa ttatittgag gcagacagaa anctgttatt 600
ctaactgatt taatatgttc tgtaattgaa aaaatgttca ccaaattata ctttttagtg 660
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ataccttgat tntccatt tgaattgtc ncttttgcc acataactaa acnttcatt 840
ttaaaattaa ctaaaaatcc tggaaattga antnaacct tt 882

<210> 3067

<211> 482

<212> DNA

<213> Homo sapiens

<400> 3067

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ccggttgctt tctgcagccg catctcgcc agctctctc gccgtccccg gggcgctgtg 120
cgtctccagt ccgggaccga agccgcctgc cgtagcgggc ggccanattc gcgtcccgcc 180
tcagcgcccg gaggacatgc gggagagaga atgagccaga gggacacgct ggtgcatctg 240
tttgccggan gatgtggtgg tacagtggga gctattctga catgtccact ggaagttgta 300
aaaacacgac tgcagtcac ttctgtgacg ctttatattt ctgaagtica gctgaacacc 360
atggctggag ccagtgtcaa ccgagtnntg tctcccgac ctcttcattg cctaaaggtg 420
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gt 482

<210> 3068

<211> 664

<212> DNA

<213> Homo sapiens

<400> 3068

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gtacacctgt atgtgcttcc tcattgatat ggtgaatgta agtctggagc ttaaagatcc 180
aaaaagaaaa gaaggtgctg ggtccctagc cagatttgac ttcaagaaat gcaaactgct 240
ctatgaaagt tttccaacc aaaccaagtc cattaacttg gtttcccatt ccatgatggc 300
ttttgacacc cgttatgctg ggcagaagac cagccctggc atgacgaatg tggtcagctg 360
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tttcagatct accaaggatt cctcctgctt tacagtagtt ctcaacaatc tccgtgtggt 480
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gaaacaaaat catgttactc cttctcgcca ccgtaactct agcagcgaat ctgctatagt 600
tcccaaaaact gtgaagantg gantanttac caagcggctc ccttccctgt gttcaatgaa 660
aggc 664
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<210> 3069

<211> 744

<212> DNA

<213> Homo sapiens

<400> 3069

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aaagctagtt gagagagcat actctggttt ttcattcttc acagtagtca aagaagttac 60
atatacaatt agaatttggt gtttctgttg ccagaaactc aatacaattt gtcacatcag 120
gaaaggtttt ttgttggtat tggtgttggt ttgagacgg aatttcactt cactcttggt 180
gcccaggctg gagtgcaatg gcgcgatctc ggctcaccac aacccccacc tcccaggttc 240
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aagcgattct cctgcctcag cctcccaagt anctggaatt acaggctttg tcactacgcc 300
 tggctaattt tgtattttta gtagagatgg ggtttctcca tgttggtcct gctgggtgcc 360
 aactcccaac ctcangtgat ccgcctgcct cagcctccca aagtgctgcg attacaggcg 420
 tgagccactg cacctggccc aggaaaagtt tttacatac gaattaaaga tgcttcttta 480
 tgcaaatttt taaaccccag gtttgaagta ggataaaagg taacattaaa tctganatca 540
 tttctagctc tggaattctg tgattgtaat ganttttgat ttctaaatgt ttttcccttt 600
 cataatttca gggtttagtca gcaacataaa ntcncctaa tgacagcaga naacttatcc 660
 atctgttttt gggccacctt tgaagaaaac tgattttgaa aaatcganan tttctgtcta 720
 ctactaaaaa tcctcnntct gttg 744

<210> 3070

<211> 740

<212> DNA

<213> Homo sapiens

<400> 3070

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 cacgtatttt ggcggtggtc atggaccaag cgcccagctt ctcagcgctg ctcctgaggg 240
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 tatactcag gtccactggt gtgtcctccc ctcccgagtg ctgctggtac tcacctcaca 360
 tcgaggaata cagatgtncg agtccaatgg ctacaccatg gtctactggc atgcaactgga 420
 ctctggagat gcctccccag tacaggctgt gtttgcccgg ggaattgctg ccagtggcca 480
 cttcatctgt gtgggaacgt ggtcaggccg ggtgctggtg tttgacatcc cagcaaaggg 540
 tcccaacatt gtactgaacg angaactggc tgggcaccan atgccaatca cagacattgc 600
 caccgaacct gcccgaagga acaggattgt gtggctgaca tgggtgacngc aaataactcc 660
 aggcttgctt ttgtttctgg cgggccaggg ncaaaaattc ncanttatg aaccccattn 720
 ccaagaattt gggaatttcc 740

<210> 3071

<211> 725

<212> DNA

<213> Homo sapiens

<400> 3071

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gaacaaggga aatgagcaaa gtaagaagac accaattgag aaatctgatt ttgctgctgc 60
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tgattcagga acaggattga cttactggaa actagaggaa aaggatatgc accactcttt 180
gcctgaaact ttagagaaga cgttcatatc attgtcttcc acagatgtgt caccaaacca 240
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accagaggtc ctgactctag atcctacgtt acacatgaag ccaaagcagc agatttcagg 420
gattcaacct cacggccttc cgaatgccct tgatgacaga atatcctttt ccccggtc 480
tgttctagag cctagtatgt ctagtccttc tgacatagac tcattttcac aagcaagtta 540
tgtcacttct cagttacctg gatttccaaa atatccctca cacacaaaag cttctccggt 600
gggactcttg ggaaaaatcc gacttccnaa acgaaagttg gaacagttcc ncctttccgt 660
ccgtttntnc ccttactagt tatgatatct cccgtccacc ctgttaatta aaaaaacact 720
gtcnt 725

```

<210> 3072

<211> 633

<212> DNA

<213> Homo sapiens

<400> 3072

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agagcggccg cggtcctccc gcacctgagg ccatggatga ggagcgcgcc ctctacatcg 60
tccgggcccg cgaagcaggg gctatcgagc gggtcctgag ggattacagc gacaagcata 120

```

gggctacttt caaatttgaa tcaacagatg aagataaaag aaagaaactc tgtgaaggca 180
 tatttaaagt ccttataaag gacatcccaa caacatgtca agtgtcctgc ctggaagtac 240
 tccgcattct ctccagagac aaaaagggtt tagttcctgt gacaactaag gaaaatatgc 300
 agatactgct gcgactagcc aagctaaatg agttagatga ttctttggag aaagtatcag 360
 agttcccagt tattgtggag tcattaaaat gtctgtgtaa tatagtgttc aacagtcaga 420
 tggcacagca gctcagcctg gaacttaatc ttgctgcaaa gctctgtaac ctccagagaa 480
 agtgcaagga ccggaattt atcaatgaca ttaagtgtt tgacttgccg ttgctcttcc 540
 ttctgtcact ttgacacacc gacatcaggt cacaattgcg ctatgagctc cagggactac 600
 cgctgctaac gcgaatcttg gaaantnnct tta 633

<210> 3073

<211> 717

<212> DNA

<213> Homo sapiens

<400> 3073

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 ccccgacgac agcagttccc ggaggtgcag cgcgcctggg gcgagcccga aggagaggca 120
 tcctgacagc cgccagcggg agagaggtgg aggccccaag aagccgtgga aatgcgggga 180
 ctgcgggaag gccttcagct actgttccgc gttcatctta caccagagaa tccacaccgg 240
 ggagaagcca ttgctgtgcc ccgagtgcgg caaggccttc agccagagcg tgcacctgac 300
 cctgcaccag cgcacgcaca cgggcgagaa gccctacgcc tgccacgagt gcggcaaggc 360
 cttcagccag ggctcgtacc tggcgtccca ctggcgcacg cacacgggcg anaagccgca 420
 ccgtgcgcc gactgcggca aggccttcac gcgcgtcacg cncctgaccc agcaccggcg 480
 cgttgacacac gggcgancgg gcctacgcgt gcgccagtg cgccaaggcg ttccgcaacc 540
 gctcgtccct gatagancac cancgcatcc acaccgtga gaaccctacc aattgctccg 600
 cgtgcgcca ggccttccgc ttctcctcag cgctcatccg cccaccancg catccacacg 660
 gaaggaaaaa ccctaccgcc tncggccaat gcgccnaggg ctccncgca aaattnc 717

<210> 3074

<211> 508

<212> DNA

<213> Homo sapiens

<400> 3074

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tctcagaaat aatctcatcc atatccgatg taaaattcag tcatagtggg cggtacatga 60
tgaccagaga ctacctgtcg gtgaagggtg gggacctcaa catggagagc aggccggtgg 120
agacccacca ggtccacgag tacctgcgca gcaagctctg ctctctctat ganaacgact 180
gcatctttga caagtttgag tgttgctgga acggttcgga tagcgccatc atgaccgggt 240
cctataacaa cttcttcang atgtttgata gagacacgcg gagggatgtg accctggagg 300
cctcgagaga gagcagcaaa ccgcgcgcca gcctcnaacc ccggaaagtg tgtncggggg 360
gtaagcggaa gaaagacgaa atcngtgtgg acagtctgga cttcaacaan aagatcctgc 420
acacagcctg ggcaccccgt ggacaatgtc attgccgtgg ctgccaccan taacttgtac 480
atattccagg acaaaatcng ctananac 508
```

<210> 3075

<211> 486

<212> DNA

<213> Homo sapiens

<400> 3075

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agcggggctg aagccctggg cccggcagag gaaggtcgag atggaccatg ttgggcccct 60
tctctccccg cccccaggcc gcagttcggg ggccacgccc cggcgtgctc gggtcaccgc 120
gggaagccct tgaaccccct ggcgcccggc acccacgtgc ggtaaccgcg gctcctcgag 180
agctccaggg gatgcggatc tacagtaagg gctgtggcca gatgaatgaa tgcacatttt 240
ttagtgggca gaaagatgtt agaattcatg aattagaata agcacaaagg anggtgagag 300
gggangccgt ggaanccgca ttcctcccc tgaactgggc gccaccccc gaaggggcg 360
gtccccctcc tgctccactg cacgtgggtg tttaccagg ggatatccag tgcctcaagc 420
```

accacgaccc ggganaaaac tgggttgana aagtcttcta acaanccttt tgcacacctg 480
ccatgt 486

<210> 3076

<211> 598

<212> DNA

<213> Homo sapiens

<400> 3076

aggctcgcg ccccttccgg cgcggggagg gcgctgaaga tcggggccgc tcggccgcag 60
gccgcctcca gcgccgcggg atgtagcgcg ggggaccgcg gccccagca gagccgcct 120
gcccagcttg tctacatca gagggagatc tctgccccct ggggctgaga gacccaacc 180
tttcccaag ctgaagctgc agggtattga ggtaccagcc agatgtcttc ccacaaagga 240
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ctggctgaac tgggaccct gctagaagag aaggcacaac gggtaatcgc caaccaccc 360
aaagctgaag aagagcaaac atgcccagtg cccaggaag aagaggagga ggtgcgggta 420
ctgacacttc ccctgcaagc ccaccacgcc atggagaaga tggaagagtt tgtgtacaag 480
gtctgggagg gacnttggag ggtcatccca tatgatgtgc tccctgactg gctaaaggac 540
aacgactatc tgctacattg tcatanaccn cccattccct cctttcgggc ttcttcna 598

<210> 3077

<211> 719

<212> DNA

<213> Homo sapiens

<400> 3077

gggggctgta gggaggggga ccantggcag anggacctta ggtgacccct anaaataaag 60
gctagtttct gttcgacctt ggagtagggc gaagangtgt agacaggctt ggagaagcga 120
ggtaaaaccc tgagtaaaag caagaagttg gagaatatga gatacatctc atctctagta 180

aataacttaaa tgacttcccc tcctccccgga gtcaancaca attcggggat gcagtgcagg 240
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 gctatcactg gcttaaattg tngtgggaaa tccaacatat tggactccat ctgctttttg 480
 ctgggcatct ccaacctgtc tcaggttcgg gcttctaatt tacaanattt antttacaaa 540
 aatgggcagg ctggtattac caaancctct gtgtcaatca cttttgataa ttctgacaaa 600
 aancaaantc cttaagatt tgaagttcat gatnaaatcc antaaccaag gcaggttggt 660
 attggtggta aaaataaatt tttaatccat tggaatccat gccnccnacc ccnaatttc 719

<210> 3078

<211> 554

<212> DNA

<213> Homo sapiens

<400> 3078

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 agctggtttg ttgattagtg atctaagacc gccggaagcg cttcttctca atcaagctat 180
 gcaacaggaa gtcattacga tcccgttgta acctctaaat atgtccccgt tctgcacagc 240
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 aacgctccag gtcgtgaagg agcaacttca ccatcgccgc ctacagacgc cactgggagc 360
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 atttcgaaat tgcaccggtt gaggatggct gacattctct ctcagtcaga gaccctggcg 480
 tcncaagacc tcagtgggga cttcaagaaa ccagctctgc cgggtgtcca ncggggcgga 540
 gtnnggnccg gccca 554

<210> 3079

<211> 550

<212> DNA

<213> Homo sapiens

<400> 3079

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ccgtccccag ctcaagtaca aaaatgctga gtttcttccg taaaacacta gggcgctcgg 180
ctatgcgtaa acatgcagag aaggaacgac tccgagaagc acaacgcgcc gccacacata 240
ttcctgcagc tggagattct aagtccatca tcacgtgtcg ggtgtccctt ctggatggta 300
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aagtingcaca ttggttgat ggtacaaaaa gcatcaaaaa gcaagtnaaa attggttcac 480
cctattgtct gcatcttcna nttaagtttt attcctcaaa aaccaaata ccttcgtgag 540
ganctaaccc 550
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<210> 3080

<211> 747

<212> DNA

<213> Homo sapiens

<400> 3080

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ctgatagttt tggaatcacc attagagctt aagacacacc tgccttcatt tcaaccacct 120
gtcttcatac cctgacgaag tgcacctttt aacactcctt tgccttgga ttacttaaga 180
gttcccagaa atacatttgc caccaacaga gtagccaaat ttataaggaa aaatgattcc 240
caatggatat ttgatgtttg aggatgaaaa ttttattgag tcttctgttg ccaaattaaa 300
tgccctgagg aaaagtggcc agttctgtga tgctcgactt caggtctgtg gccatgaaat 360
gttagcacac agagcagtgc tagcttgctg cagtcctat ttatttgaaa tctttaatag 420
tgatagtgat cctcatggaa tttctcacgt taaatttgat gatctcaatc cagaagctgt 480
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tgaagtcttg ttgaattatg cctacactgc tcagttgaaa gcagataang gaattggtaa 540
aagatgttta ttctgcagca aaaaagctga agatggatcg antnaagcag gtttgtggtg 600
attatttact gtctagaatg gatgttaciaa gctgcatctc ttancgaaat tttgcaantt 660
gtatgggaaa cccccgttgg ttgaataaag gttgaatgct tatnttcngg ancattttgt 720
tacaattttc tgaaaaagga ggaantt 747

<210> 3081

<211> 618

<212> DNA

<213> Homo sapiens

<400> 3081

taagtcagct gcagacttga ttagcctgcc taccactgta gagggacttc agaagagtgt 60
agcttccatt ggcaataactt taaacagcgt ccatcttgct gtggaagcac tacagaaaac 120
tgtggatgaa cacaagaaaa cgatggaatt actgcagagt gatatgaatc agcacttctt 180
gaaggagact cctggaagca accagatcat tccgtcacct tcagccacat cagaacttga 240
caataaaacc cacagtgaga atttgaaaca ggatatectg taccttcaca actctttaga 300
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gaacgagaca gtcagtnatc ttaccagag agtcaacctg atagaaagcg atgtggttgc 420
tatgagcaag gtagaaaaga aagcaaacct gcccttcagc atgatgggtg atagatctgc 480
cactctgaaa agacagtctt tggatcaagt cccaacagaa cagatacagt naaaatccna 540
agcataaaga aagaagatag ttcaaattct caggntcca agctaanaan agaaactcca 600
gctgatcagt gctcttac 618

<210> 3082

<211> 609

<212> DNA

<213> Homo sapiens

<400> 3082

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gctgtacggt gcgcgtgacg gctgcgtgcg gcgggaacca tggctgctcg cagagctctg   60
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gggatgaagg ttctgcggca tgaggaattt gaagaaggct gcaaagctgc ctgtaatggg  180
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acggaagttg cagaatgtgt ttttgaaacc gaggccccgg gaggatataa gttctatttg  420
cagaatcgca gtctgcctca gtcagatcct gtattaaaag taactctagc agtgtctgat  480
cttcaaaagt ccttgaacta ctggtgtaat ctactgggaa tgaaaattta tgaaaaagat  540
gaagaaaagc ccagggcttt gctgggctat gccnataacc angtnagca atcttggaga  600
agaataacc                                     609

```

<210> 3083

<211> 705

<212> DNA

<213> Homo sapiens

<400> 3083

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caaaataatg ttataaatt tatttgtcta tactagtaga agtgatcagt gacatactat   60
aaataatcct aaatggttat atttgataga attcataaca cattaaagag aaaatttcac  120
attaaaggaa ggtttaaaaa tctattttca gattataaaa ggtgtcttta ctggttttca  180
ttccttttat ctacatgtaa ttggacatgt aaacttgtta aaaatcaaaa tcttactgat  240
tgtacaggga naaattaagc attctgtttt aaaaattagg ctatttgcta gactgtaagt  300
ttaaaaacaa ttcattgtca aaggagcttt tcaaattacc cagtccacca cagaatcagc  360
taatgtgaca gaagtaaata tagtgcgtca taattgctaa aaacagggtg aatttctttc  420
acttaagttg gaaaaccanc ctctaaaaaa ttaggtgctg gtaatganan cttaatacca  480
tggttccctg caggtctcaa aaacattaat anttcctttc ttggccctca ctgtccttcc  540
agtgttgggc tctggcctct tccctcacat ttatgttcat tctccgggt tatattcatt  600

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ctctgtgtgt ttctcccttc accgtgggan tctcaccctc ttgttcattc tccancaccc 660
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<210> 3084

<211> 631

<212> DNA

<213> Homo sapiens

<400> 3084

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caaaccacaac cagacgcgga cctacgaccc cgaggggttc aagaagcggg cggcgtgcct 120
gtgcttccgg agcgaacgcg aggacgaggt cctgttagtg agtagcaacc ggtacccgga 180
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aaagctgggc ggttcccca ccaatggaaa ctccatggcc ccacccctgc cagatagcga 540
tccctaatac acagcanana tgttcagtat tgtgctgaaa naaacattga tgttaacccc 600
agtgatcant ggaattgtcn agtacaggtg a 631

<210> 3085

<211> 545

<212> DNA

<213> Homo sapiens

<400> 3085

tgttgcaagt aaagaagggg aaatccgagc gttctcgcgt tggatttcct ccacgtgtga 60
agtgggaatg gtagtgatat ctcgtgctat ctctgtcaag ggcaagaagg agaaggaatt 120

tatttgaggc cctacgacgt ggtagggttca ccctcagcct ttgttcttat ttcattttat 180
 ttgtggagaa ggtcttttcg ttcctatattt acaggtgaga aaaggggccc aatatatagt 240
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 gattgacttc cctctttaaa ttttgtactt tgggtaacat cggatccggt agaaacgctc 360
 gtcagaaaga gtttttaatg tgcattctac aatttccaga catagtttcc ttcttgaaaa 420
 attgggttaa tactacccta tagggatctt gtgatgcacc acgtaaacgt tgtaagttgt 480
 gaaccactat acaaacgtat ganactcttc atgttcttga ntggaactgt angttaagaa 540
 nanaa 545

<210> 3086

<211> 654

<212> DNA

<213> Homo sapiens

<400> 3086

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 aggggaagcca ggggtcccag cccgtctacc tcccattccc acccaggccc ccagctcccc 120
 gcgggggcca ccgcagggcc tgtgggctgg gtcacgtggg tctcgctggg acctggtccc 180
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 cctctctaca actaaanacc ctctgggcct gtgttctgtg tactcctact gatctgttcc 480
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 ccgccccctc cggggctgaa ccagggtctg aaaactgaat gtaacagggg ccgctggcac 600
 tctgencgt ccccggtctt ggcncctgcan gggtttcggc cccacctct ccaa 654

<210> 3087

<211> 562

<212> DNA

<213> Homo sapiens

<400> 3087

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gtcgaatggt ttgttggcag ggtgtcctgg tggattgggt tctgtaagtt cagattctca 60
taaatcgtgt gagcgtcgcc gacacctctg agataaaagg gcccctttcg actagcctct 120
gctgaaagga cctaaaanaa tcccttagga tgaagctgag tcttaccaag gtagttaatg 180
gctgtcgcct angaaaaata aaaaacctgg gcaaaacagg ggaccacacc atggatattc 240
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atgaagtctt gacagaatat aaagaaggag ttggaaagtt tataggcatg ccagaatcac 420
tcttgtactg ctccctgcac gatccantca gcccctgccc ggctggttat gtaacaaaca 480
antctgtgtc tgtgtggant gttgcangac gantggaaat gactgtttcc aagttcatgg 540
caattcanaa ggccttcagc ca 562

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<210> 3088

<211> 587

<212> DNA

<213> Homo sapiens

<400> 3088

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gtcctcaaagg aggaaatgac cattcaggga tcttactcca gcttgattac ggagactgaa 60
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cttataacaa agaaaataaa aatgacgact tcgtctatca gacggcagat gaaaaacatc 180
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gtgttcaagg cgctgaccct gctggactac ctcatcaaga caggctccga acgtgtggcc 420
cagcagtgcc gggagaacat cttcgccatc cagaccctga aggacttcca gtacattgac 480

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cgagatggca aggagcaggg catcaatgtg cgtgagaagt caaagcaact ggtggctctc 540
ctcaaggaca aagaacgttn aangctgaaa aggccccangc tctcaaa 587

<210> 3089

<211> 570

<212> DNA

<213> Homo sapiens

<400> 3089

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cctctgttcg ttttactgc aggaccaggc acgaaagtta aaacaaaatg aagatttttt 180
ctgaatctca taaaacagtg tttgttgtgg atcactgccc ttatatggca gaatcttgca 240
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cacatgtttt aaattcttgg actcnagaan accaaaattt acaggagcta atggcagcat 480
tanccgctgt tgggcctcct aatcctcggg cagatccaaa ntgctgcatn ttctgcatgg 540
ccttgttgcn ccantggaaa ctctctgcca 570

<210> 3090

<211> 499

<212> DNA

<213> Homo sapiens

<400> 3090

actacctgc tgggacctgg tcttgctgtc ccccgctggc ctcctgcca agcgactgcg 60
gccaggatgg gccggaaggt gaccgtggcc acctgcgcac tcaaccagtg ggccctggac 120
ttcgagggca atttgcaaag aatttttaaag agtattgaaa ttgccaaaaa cagaggagca 180

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tgcagagtga tattcctcaa caggaagatc ctgctcatca naccgaagat ggccttggcc 420
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<210> 3091

<211> 598

<212> DNA

<213> Homo sapiens

<400> 3091

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cctctacttc aggttattgt tgaaatgacc tgaaatttta aggaagtagc tgaaaatagc 180
attaagattg gaaagaaagg cagacagatt atgagaggcc tataatgcca gccttgtgga 240
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tgaggggatg agggangctt tgctaacctg aatttcaagc ctgaatgagg ttgatgatga 480
cattaactaa gacagcagac atggaaaagt tatgtgtgga acttanggtt cttggattcc 540
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<210> 3092

<211> 569

<212> DNA

<213> Homo sapiens

<400> 3092

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tttgaacaga gacgtgaatg tctaaccttt tgattctatt ccttttattc cagcgagtcc 180
caccactgtc acccagatga gcttgtccaa cccgaccatg ctgaggactc acagcctctc 240
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aatcttggtg acntgacatc aggctccaa 569
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<210> 3093

<211> 675

<212> DNA

<213> Homo sapiens

<400> 3093

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agtatagtta aaaaccattc atattttaag tgattcatgt ataccctgaa gccgttaata 180
caccocagtc tctatggtaa catcactaaa tgtgggcata gaaactccac agctgtttac 240
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gcaatttggc actcanattc tactctactt cacctaacca cccctagatc tgagttttca 360
gagtgttctt gaagtacagt ttaaaaacac tttttaaaaa gtggantaaa agtgaggcac 420
attttacaag aacataactc ctattaaaac ggantaacaa ctatgcaaag gtttctatag 480
canctaagtg antttgtttt ccgggtctgt cttactggc ancttcctgt acatactggt 540
acttatttgc tgtaaacgtc tgtttcatac ntttgccatg cantgactgt gctcnaaaag 600
ttaaatccat ggtaaaaaaa cctaagattt tatggtatga aaaactgatc gcgggatttc 660
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cgattcataa annnc

675

<210> 3094

<211> 159

<212> DNA

<213> Homo sapiens

<400> 3094

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ggctgcccag ggcccgcgcc gctgcattgg ggcggtccgc gggccctgag aggaanggca 120
tacaggcggg ccgatatann aggggcgggg tctggcgga 159

<210> 3095

<211> 501

<212> DNA

<213> Homo sapiens

<400> 3095

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cctgccaccc agacaaaaat ccagataatc ccagagcagc tgaactcttc caccagcttt 180
ctcaggcctt ggaggtgctg accgatgctg cagccagggc tgcatatgac aaggtcagga 240
aagccaagaa gcaagcagca gagaggaccc agaaacttga tgagaaaagg aagaaagtga 300
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agagccggag caccaggaca ctagagcaag agatcgaacg cctgagagaa gaggggtcccc 420
ggcagctgga ggaacagcag aggtctcatcc gggagcagat acgccaggaa ccntnaccaa 480
aggttnaaaa aggaaaaggg c 501

<210> 3096

<211> 523

<212> DNA

<213> Homo sapiens

<400> 3096

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cgtacctgag cccccagcat ggcgggccta aagcggcggg caagccaggt gtggccagaa 180
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ggccgctgtg atgaaagtaa ctttcgccag gtgctgcagc tgctgcgcat catcactcgc 420
cacgacctgc tgccctacgt caccctcaan anganacggg ctgtgtgccc tgatcttgta 480
nacaagtatc tggangaaac atcaattcgc tatgttacct cca 523
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<210> 3097

<211> 463

<212> DNA

<213> Homo sapiens

<400> 3097

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acccctggct ccagcacccc tgggccgggc accccggtcc ctacaggaag cgtcccgtcg 180
ccgtcgggct cagtgccagg agccggcgct ctttcagac cgctgtttta cgactttgga 240
ccgccttcca tgggctacgt gcaggcgatg aagccaccg gcgcccaggg ctcccagagc 300
acctacacgg acctgctgtc agtcatagan gagatgggca aagagatccg gcctacctat 360
gctggcagca agagcgccat ggagcgcctg aaganaghta tcatccatgc ccgggccta 420
ntcaganagt gcctggcaga nacaganccg aacgcccga cgt 463
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<210> 3098

<211> 606

<212> DNA

<213> Homo sapiens

<400> 3098

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gcgctcctgc tcttaggaag cctggggaag gaccggtgtg ctagggagat gatcggggaa 60
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agccagcagc cttttccaga gaggctgtgg tccatagcct ctgttcgttt tcaactgcagg 180
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aaaaagccgg tgaattttat tgtgagtgac tctggancac atgttttaaa ttcttggact 480
caagaagacc aaaatttaca ggagctaata gcancattan ccgctgttgg gcctcctaata 540
cctcgggcag atccagaatg ctgcantatt ctgcatggcc ttgttgcanc antggaaact 600
ctctgc 606

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<210> 3099

<211> 563

<212> DNA

<213> Homo sapiens

<400> 3099

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aagatggcag ctgcgggagc cgtctccgcg gcgcgtgggc ttcgtgggcg cgggccgcat 60
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ggccagtgca ccaacagaca ggaacctatg tcaactttcaa gctctgggtt gccggaccac 180
gcactccaac caggaggtgc tgcagagctg cctgctcgtc atctttgcca ccaagcctca 240

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tgtgctgcc a gctgtcctgg acagaggtgg ctctgtggt caccactgaa cacatcttgg 300
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 gcctcggggc cgccacgtgg ggagcaccga gaccaacctc ctgcagcatc ttctggatgc 480
 ctgtgggcgg tgtgaggagg tgcctaaatc ctacgtcgac atccacactg gcctcaatgg 540
 cagtggctgt ngccttcng tnt 563

<210> 3100

<211> 651

<212> DNA

<213> Homo sapiens

<400> 3100

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 ccgatggact caaagaagag aagctcaaca gaggcagaag gatccaagga aagaggcctg 180
 gtccatatct ggcaggcagg atcctttccc ataacaccag agagattgcc aggctgggga 240
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 gctggccagt gtgcngtanc caaccancag tatgtgccgg aaccaaatcc tgtcagcatt 540
 gctgattctg aagccagccc tttgttagca ntcaggattt tacagttggc gtgtggccaa 600
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<210> 3101

<211> 547

<212> DNA

<213> Homo sapiens

<400> 3101

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tttctcccca gcggcggggg atgggggtag gcggttcctc tgttctttct gcgttccccg 180
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atgacgantc caaggagca ttggggcaga cttgcactca gagccacctg acggacttgg 480
cgggtggcgcc cagcactgtc ccctcccctc gtagagacac ggttgtcgtt tgggantang 540
gaacact 547

<210> 3102

<211> 599

<212> DNA

<213> Homo sapiens

<400> 3102

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gctctcttca cttacgaatc tcttaagaaa accaaatgcc gagagtttgt gccttcccga 180
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gaaaagctgg ctgccacatc cgaggttggg gacctgccat ggaaattcta cttcaaactt 480
tactgcttcc tggacacaga caacgtgcca aaagacagtg tggantttgc ntttatgttt 540
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<210> 3103

<211> 612

<212> DNA

<213> Homo sapiens

<400> 3103

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aattaacact aaacaactaa tccaagtttt ttcttaaate caattctgat gtataaattt 180
tgaataatat taggttctta actggaaatt accatttcag ggtttgaaaa ggactaggtg 240
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tgatgctgca tttctcctcc ccaggcagca attccccag gcaagcaacc gtcttacta 540
ncttctccaa atcctcccat ggcaaaaggc tcngaacaag gcttccagtc acctccanca 600
antattantt ca 612
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<210> 3104

<211> 471

<212> DNA

<213> Homo sapiens

<400> 3104

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gggacaccgc ggaagtcggg aaatggcctc agtggcttta gaggatgtgg ctgtgaactt 120
cacccganaa gagtgggctt tgctgggtcc ttgtcanaan aatctctaca aagatgtgat 180
gcaggaaacc atcaggaacc tggatttgtt aggaatgaaa tggaaagacc agaacattga 240
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agatcaatat agatatccca ggaaaaatct aagatgtcgt atgttagaga gatttgttga 300
 aagtaaagat ggaactcaat gtggagaaac atctanccag attcaagata gtattgtgac 360
 caagaacact cttcctggag taggtccttg tgaaagcant atganaggag aaatcgatcat 420
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<210> 3105

<211> 468

<212> DNA

<213> Homo sapiens

<400> 3105

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 ggagattgca aggtcntctt atgcagatat gctacatgac aaagacagaa atgttaaata 420
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<210> 3106

<211> 530

<212> DNA

<213> Homo sapiens

<400> 3106

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 anggatgatg attattcccc accttctaag agacaaagac caacgagcca ccacagccac 180

cagtcccaga acccgccaat gctggggaat ggaaaatgag ggagttcaac tctggccctc 240
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 gcctttcttc catttgtggt tcttgcaag tggaatttaa atgacatctt atcnagatgg 480
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<210> 3107

<211> 621

<212> DNA

<213> Homo sapiens

<400> 3107

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 tggagcggcc cagcagtgtg agcgtgggtt ttactgcccc atccgccatg tccttcagt 180
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 tgtccatccc tgatgaaaat ggggaaagcc gggcacatag ttccccacct gaggacctgg 540
 gcctctcaag gaaatccggg gaacctttta ggctctgtct gccgtggaaa aagaatgtga 600
 cancgtgggc ancggcgtnc a 621

<210> 3108

<211> 512

<212> DNA

<213> Homo sapiens

<400> 3108

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aagagacctc cccaatcccc gcctgccacc acctggctcg cgcgagcccc cggcccagaa 60
tgccttaacc tgcgccgatt gctgccgccg aggtgcccct cccctgtagg gaccccagac 120
ccgccagccc ctctctcctt tcccgcaggt tagcctggca aggaagataa agacatttgc 180
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gatcatattt gtctacatat acaccacct gtgaatggcc cagagcgctc tcanaggcct 360
cagaatggcc aaagacggaa gtcctgcgtg tcggcgcatc actgaccaga ccctgcgana 420
acaagcaggc ttgaccgcga catnccaccc aatcaaatgc acctttnaac ttacaaaaag 480
gtcnacaaaa tanaccgatc ctgctgcagg ga 512

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<210> 3109

<211> 662

<212> DNA

<213> Homo sapiens

<400> 3109

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atgtanaaaa acatttaggc ataggtcagg ccttatgcag catcagagaa cacacaccag 60
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tgagactcca cagaaaagaa aagtttcttg agagcagaac ttctgtcctt ccttcccagt 180
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gagcttctta taagatggca aatgtgcctg gcaagagcat ttgtattttg tcaggtggag 480
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gaattatgct attagtttaa taatatctga ngcagtaaaa tantacctga agaatgggtc 600
ctcattctgc ccccttgcca nttgtctcct caatcctgaa ctctctgctg angttaattc 660

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na

662

<210> 3110

<211> 528

<212> DNA

<213> Homo sapiens

<400> 3110

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agtcctcgc cgaccagtct gggcagcgga ggagggtggt tggcagtggc tggaagcttc 60
gctatgggaa gttgttcctt tgctctctcg cgcccagtc tcttccctgg ttctcctcag 120
ccgctgtcgg aggagagcac ccggagacgc gggctgcagt cgcggcggct tctccccgcc 180
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gccccggggc cccctgcgan tccccggttc agccatgggg acctctccga gcagcagcac 420
cgccctcgcc tcctgcagcc gcatcgcccc ccgagccaca gccacnatga tcncgggctc 480
ccttctctg cttggattcc ttanaccac cacngctcan ccagaaca 528

```

<210> 3111

<211> 486

<212> DNA

<213> Homo sapiens

<400> 3111

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ctgcttccgc ccaaaaagat aattgggaaa aactcaagaa gcttgggtgga gaagaggag 60
aaggatctgg aggtctacct ccagaagctc ctggctgcct tccctggcgt gacccccaga 120
gtactggccc acttcttgca ttttcacttc tatgagataa atggcatcac cgcggcactg 180
gctgaagagc tctttgagaa aggagaacag ctcttggggg ccggcgaggt ctttgccatt 240
ggacccctgc agctgtatgc cgtcacgggg cagctgcagc agggaaagcc cacgtgcgcc 300

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agtggggatg ccaagaccga cctcgggcac atcctggact tcacctgtcg ccttaagtnc 360
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 ccgttcgacc tatcaatatt caagtccttg cntcaggtgg anataagtca ctgtgatgct 480
 angcac 486

<210> 3112

<211> 501

<212> DNA

<213> Homo sapiens

<400> 3112

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 tgtgttctcc accatagctt tggactctct tgttcttgaa aacttaagta cccanatttt 420
 gatcttggct cctacaanan aaattgctgt acagatacat tctgttatta cagccattgg 480
 aataaaaatg gaangcttan a 501

<210> 3113

<211> 544

<212> DNA

<213> Homo sapiens

<400> 3113

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 caccacacca tcttcgcca ggtgtgcctg gcctcccggg catccacca ccgggtgtga 480
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 aaca 544

<210> 3114

<211> 526

<212> DNA

<213> Homo sapiens

<400> 3114

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 cctcgtcgtg ggggttcgtg cggctccan gangcgtgaa ccgcggacca tgagcgtggg 180
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 cctgtcggct cacaagataa tagccagctc ccagaaatg aacctgcca cgggtgtcgc 300
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<210> 3115

<211> 776

<212> DNA

<213> Homo sapiens

<400> 3115

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agccgcgtaa cagcctttct agatgattta agccagaagt taaaaccctt ggggtgaagca 180
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gttttgaaca agantgttac actttatact gtgaaggata aagctacang agaagtattg 480
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tggtgaactt ctcccagccn gtggcaggtc ctccctctcc tcctgagacc nacaaaactg 660
attttgcccn aattagcgga acaatgtnga aactgacttt gttttnaagt ccctccccaa 720
atgccttnaa aaattggggt tgtgggaact tcnggtcccc cccaaaaaat tgtccn 776

<210> 3116

<211> 503

<212> DNA

<213> Homo sapiens

<400> 3116

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tctagctcag gctttaggat cagagagcan canattcaaa tcctgacggg tttggtaaag 180
tcaattcaat ctctccaana ctccgtttac ttgatctgcg aagtggggat aatggtatca 240
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cccgcgaagg gacatggagt tgctcancaa cagcctggct gcctacgcgc acatccgcgc 360
caaccccgaa agctttggcc tctacttctt gctgggcgtc tgcttcggcc tgctgctcac 420

cctctgcctg ctcgtcatca ncatctcgtg ggcgccccgc ccgcngcccc ggggcccggc 480
tcancgccgg gacccccnca nca 503

<210> 3117

<211> 440

<212> DNA

<213> Homo sapiens

<400> 3117

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gcaccggggc gatcgggcga gtggccatgg cgggcgccga ggactggccg ggccagcagc 120
tggagctgga cgaggacaag gcgtcttggt gccgctgggg cgcgcagcac gccggggccc 180
gcgagctggc tgcgctctac tcgccaggca agcgcctcca ggagtgggtgc tctgtgatcc 240
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<210> 3118

<211> 261

<212> DNA

<213> Homo sapiens

<400> 3118

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ggcgggtgctg gtggcggcgg cggcggatgc caccgccgcg gtcccagcgg caacagcagc 180
ggcgggagga gcctccggga aatggatgaa aagacgctgc tggatccann gttgaaggtt 240
cataaaagcc tctgggatta n 261

<210> 3119

<211> 609

<212> DNA

<213> Homo sapiens

<400> 3119

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ggcgcttact ctgtgcgctt gcttccccaa ccctgcaccg gccatgcgcc cggccttggc 180
ggtgggcctg gtgttcgcan gctgctgcag taacgtgatc ttcctagagc tcctggcccc 240
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tgccataatg gtgaccatgt tcttcaccgt gagcgtgggtg aacaactatg ccctgaatct 420
caacattgcc atgcccctgc atatgatatt tanatccggt tctctaattg ccaacatgat 480
tctaggaatt atcattttga anaaaaaata cagtatatc aaatatacct ccattgccct 540
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ccancttga 609
    
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<210> 3120

<211> 564

<212> DNA

<213> Homo sapiens

<400> 3120

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accgcgagac gcgcgccctc gccgacagcc acttccgagg cctgggggtc gatgtccccg 180
gcgtcggcca gggtccgggc cgggtagcct tcgtctcgga gccgggcgcc ttctcctacg 240
    
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ccgactttgt gcggggcttc ttgctgcca acctgccctg cgtgttttcc agcgccttca 300
 cgcagggctg gggcagccgg cggcgctggg tgacgcccgc ggggaggccc gacttcgacc 360
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 acaactcgaa cccagagag cacatgactc tcagagacta catcacctac tggaaagagt 480
 acatacaggc gggctactcc tctcccagg gctgtctcta cctcaaagac tggcacttgt 540
 tgcagnact ttccngtnga aaga 564

<210> 3121

<211> 632

<212> DNA

<213> Homo sapiens

<400> 3121

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 gcgagctttt atgaggacgg aggggatgaa gacattgtga ccatttcgca ggcaaccccc 180
 agttcagtgt ccagaggcac agccccagt gataatagag tgacatcctt cagagacctc 240
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 gtggatgata tctttaaagg tgccaaagaa catggagctg tnnctgtgga gcgagtgacc 420
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 ggattcagcc tggataatgg agaactcana agctaccaag acccatccaa tgcccagttt 540
 ctggagtcta tccgcagaag ggangtgcca ncanacttcc gaagctanct cacggtggac 600
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<210> 3122

<211> 640

<212> DNA

<213> Homo sapiens

<400> 3122

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acattctagg gcaatcactg aagaggaaga tggtagggcaa taggaaggag gaggaggagt 180
agccctgaaa caaagcagtg ggggagaggg gataggagga gggaaacact agacaaaatc 240
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cattggaagc aaggtcctac ttcagtggca gatctggtgg ccttggagtg gctgaagacc 420
accaccctcc acagggtctg gcccatgcac agccatcctt ccctaccttg agtgagcttc 480
ctctgcatgt tttctatata actggcagag cctgtagttg gaaaggggac agagtgacta 540
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<210> 3123

<211> 670

<212> DNA

<213> Homo sapiens

<400> 3123

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aatgtctttc acatgaaatg ggcctgagtc actctaagac tcaccttagg gtgatcaaag 180
tagcaccttt gcaaaacaaa gaggtagaga ctccctcggc tggccgtgtg gactttgcat 240
tcaatcagaa tttggaagaa aagacttcat attcactggc aagactgcag gaccagaata 300
aagccttggg agggcagctg ccacctttac aagaaaactg gtatggaaga tattctacag 360
catccagaga catgtatttt gacatccac tggaacacag agaaacaagt nttattaaaa 420
ggcatccacc ccaaagactt caaaagcttg aaccattga cttgccacga gtnattactt 480
caggaagact cctgagccag cgagaaacca ggacaatgca caaagcaaag caggttctan 540

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aaaagaaaaat gcaaactcca atgtntactt ctganaacag acaatntttg catnagatgc 600
aagtgtctgga aatgatccgt aaaagacaag aaggccaaat gganttaaag aaaagtcttc 660
atgganaagc 670

<210> 3124

<211> 833

<212> DNA

<213> Homo sapiens

<400> 3124

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aaaaaagcag aaattgctag aagaaaacgt tagtgctttc aaaacagaat atgatgctgt 120
ggctgagaaa gctggtaaag tagaagctga ggttaaacgc ttacacaata ccatcgtaga 180
aatcaataat cataaactca aggcccaaca agacaaactt gataaaataa ataagcaatt 240
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ccttcaaaaag gcacaagact ctgtcttgcg tacagagaaa gaaataaaaag atactgagaa 360
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gcttcaagaa ttaaaagtta ttcaagaaaa tgaacatgct cttcaaaaag atgcacttag 540
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atattggcac aaagagattt caaaaatatc actgcacctt atagaagata atcctattga 660
agagatttcg gttctaagcc cagaggatct tgaagcgtc aagaatccaa gattctataa 720
caaatcaaat tgcacttttg ggagcccggg gtcattngaaa tgaaacccaa cctccgggtgc 780
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<210> 3125

<211> 780

<212> DNA

<213> Homo sapiens

<400> 3125

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ccatattgcc aaaggagaag cttggggagc gggaagtcta cttggcaatc ctggctggga 60
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ccgggagcac cggcaagcga gtgtccacct gccccttttg ctttggtccc tttgtgacaa 180
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agggacctat tgtcaaggac caggctcttc anattttagc attaagattc ctaaaaaata 660
tgaaggcgct tcttatgaaa gaaaagaagc aatttcttaa ngattaattt ccatnaagaa 720
accatatact anntaaaaaa gggnaaatag aactgggttg tccctcaact cctttttggg 780

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<210> 3126

<211> 803

<212> DNA

<213> Homo sapiens

<400> 3126

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gaattttcta gtcagcttcc tccagatggg ggagcatttt ataccctga aactattgat 360
acagctagac ttactatcgc gaattcctgg gcccgaattc tccatgcggg ggcactttgg 420

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ttaaataagca caggatttac gtgctcagag tctacagaag cagcagcaat atctggttta 480
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 tacatacctt gctagactcc ccttatgttc cgaagtccat attgcagnaa gantcagccn 720
 gataaggtgg ttgggttgcc tgagtgtttt gcaccggccc ttctaattga ccctgggaat 780
 ccaatcatnc tgtccangct gtt 803

<210> 3127

<211> 799

<212> DNA

<213> Homo sapiens

<400> 3127

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 gtgactcttt gtcaaaccce aacgaaagag ccattgttaa agaaaagatg gtatcaaata 180
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 aatgcactga acgttgaaag catttctctc accaaattta gaaagttcac ccaggaagct 720
 tcataaagga taagagacag ggaaaattan ncattangac ctttttttac cgggtgaaaa 780
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<210> 3128

<211> 658

<212> DNA

<213> Homo sapiens

<400> 3128

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tctgtttcac atgtgcagtt tgaagtattt aaataaccac tcctttcaca gtttattttc 180
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cgcatgttca actttttatt gtggtcttat aattaaatgt aaaattgaaa attcatttgc 600
tgtttnaaag tgtgatctt ttcacaanag cttttttata gtcagtnant cangaata 658
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<210> 3129

<211> 781

<212> DNA

<213> Homo sapiens

<400> 3129

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ttggaagtgt ttcagtggag agcaaaatga ataacaaagc gggctccttt ttctggaacc 180
ttagacaatt cagtacatta gtttcaacaa gcagaactat gaggctatgt tgtttgggac 240
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tgcaatcaac tgatatcatt agatatctct ttcaggatgc attcattttt aaatcagatg 360
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 atgtggacaa ttgccaaaag gactgtccga tgaccagaaa gcgctttgaa aaacgactga 720
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<210> 3130

<211> 744

<212> DNA

<213> Homo sapiens

<400> 3130

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 gaggcgggcc gatcgtttta ggtagaggat tcgagaccag cctggccaac atggtgaaac 180
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 aatttaccta aggccacant gttaaaaaat tgtaaagaa gctggggatc tgatccttgt 660
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 aatcaagnat naaccaatgn aaat 744

<210> 3131

<211> 693

<212> DNA

<213> Homo sapiens

<400> 3131

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ttaaggcant aggttatagt tgcatgcccc gtaataaaga tgaagatggg ctagtggttt 600
tagttttcaa caannnagaa acaggagatt cgaaagccaa caacaacaag ttggnanaat 660
caattgcata aaaggTTTTT gggaagggaa cca 693
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<210> 3132

<211> 775

<212> DNA

<213> Homo sapiens

<400> 3132

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tagacattat atagtattga ctgccagcgc atcaacagaa gaaaaccatc tagagtgggt 120
tggattagta gaatctaaaa tccgtgtact tgttggaaac ttggaacgga atgaatttat 180
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 tgtcaacata gacttgacat atgatataca gtcatttact gatacagtgt acagacaggc 360
 aaacaatata aatatgctaa aggagggaat gaaaattgaa gcaactcatg taaagaaaaa 420
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 ggagaagcca ctgagtgtac accagnccaa ggactttcca ttccagtgat tggcgcaaaa 720
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<210> 3133

<211> 805

<212> DNA

<213> Homo sapiens

<400> 3133

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aaaatttgtg aatactgccc ncccn 805

<210> 3134

<211> 624

<212> DNA

<213> Homo sapiens

<400> 3134

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gccctggatt ttctgggatt gtcaccctac gaaaggaaga gactgaagna acatttcaga 540
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<210> 3135

<211> 423

<212> DNA

<213> Homo sapiens

<400> 3135

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accgcgtggg acggcgtgaa cgtggtgtcg gagggatgtc agccttctct gaggcggcgc 180
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 ggaaagccaa accaaacagg aagcttactt ttctctacct agccgatgat gtcatacga 360
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<210> 3136

<211> 484

<212> DNA

<213> Homo sapiens

<400> 3136

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 ggcgcaggcc cagatgcgcg cgatgctgga ccagttgatg ggcacctccc gggacggaga 420
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 ctgt 484

<210> 3137

<211> 774

<212> DNA

<213> Homo sapiens

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<210> 3138

<211> 890

<212> DNA

<213> Homo sapiens

<400> 3138

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 aagctcatcg agcgggtccc ccgcaccctg ccacgctcca tcacgtacgt gagcatcatc 480
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<210> 3139

<211> 785

<212> DNA

<213> Homo sapiens

<400> 3139

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<210> 3140

<211> 809

<212> DNA

<213> Homo sapiens

<400> 3140

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gggttgagaa gaggaaaaga acttctcatt ttctatcaga taagaatcac attagaaact  180
aagtacaaga ttagacaaca aattatgtgg tcaaataata tagtcattag ccacctaaac  240
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<210> 3141

<211> 787

<212> DNA

<213> Homo sapiens

<400> 3141

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tgcattcact caacgaagtg atggaaaata ttgaagttta tcatgaattt tggtttgagg  180

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aagccacaaa ttggaacc aaacttgata ttcaaagaa actccctggg aaattccgca, 240
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 aaaatggncg aaaggcgtcc taaagcatat tgaangaaca ctttgacagg accaaagggt 720
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<210> 3142

<211> 281

<212> DNA

<213> Homo sapiens

<400> 3142

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 gccaggagtc agcaaaacac actaaagatt gggcagtcac tggggagaa actcagcccg 180
 ccagcaccca ggtgaaatat acagccttgt tgctcacaca aagcctgttt ggtggtttct 240
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<210> 3143

<211> 784

<212> DNA

<213> Homo sapiens

<400> 3143

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gagaattaag tcactctcgt gggaagaatt tttatatggg aangcggnta aaattttcaa 600
ttggactgga atgttttgga gaatgttaan ttccaaaatc aggaaccaca aactgcgctc 660
taataaagaa catcgggtat ctaagcatgt ggggtttccc cttttctgcc aannagttct 720
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atag 784

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<210> 3144

<211> 853

<212> DNA

<213> Homo sapiens

<400> 3144

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 ggttggaaag anggaactac cggctacttc taactcctca accttttctc tctccctcct 780
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<210> 3145

<211> 871

<212> DNA

<213> Homo sapiens

<400> 3145

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871

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<212> DNA

<213> Homo sapiens

<400> 3146

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<210> 3147

<211> 651

<212> DNA

<213> Homo sapiens

<400> 3147

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<210> 3148

<211> 753

<212> DNA

<213> Homo sapiens

<400> 3148

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<210> 3149

<211> 759

<212> DNA

<213> Homo sapiens

<400> 3149

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<210> 3150

<211> 708

<212> DNA

<213> Homo sapiens

<400> 3150

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ctaccagttg ctgtcggcgc tacagagcct ggtgaaggag ttgccagct ctttccagca  180

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gcgcctgtcc tacaccacgc tcagcgacct ggccctggcg cttctcgacg gcaccgtggt 240
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<210> 3151

<211> 844

<212> DNA

<213> Homo sapiens

<400> 3151

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 ttcaaattta agggataatc catttaggac tactcagact cnaaaggagg gatgataagg 720
 gactgggcac tgccattaga gaaaaatgan gtaaaggta ggnccatgga aactcccga 780

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<210> 3152

<211> 635

<212> DNA

<213> Homo sapiens

<400> 3152

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<210> 3153

<211> 678

<212> DNA

<213> Homo sapiens

<400> 3153

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 agtacatttc aacatantat tggttttaga acctgtgtgc tgccagntna ctttgcaaca 600
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 anggtatat ccccttac 678

<210> 3154

<211> 744

<212> DNA

<213> Homo sapiens

<400> 3154

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 gcctctcctc tggttgcccc gctggctgca ggctgtcatt taaccttccg cccagcatgc 180
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 cacacacagc agctctttgt gtcccactcc tggccgatct cctgcatcat ctcgttgagc 360
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 gnaagcaaca agggatgcac tttagacccc caaaaccaat acatacatcc ttcaatttat 660
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744

<210> 3155

<211> 590

<212> DNA

<213> Homo sapiens

<400> 3155

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cgtgctgttc cccggttgca cccgcccg cctgcctcctg gacggcctgg tccgcctgca	360
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anccgagagc aaagagagcg tgggctccc ggacagctcn aagagagagg gcctcctggc	480
accacacctt gacctggcca ggagcgccct ggggtgggcc ccaaggagcc aagcacnggc	540
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<210> 3156

<211> 750

<212> DNA

<213> Homo sapiens

<400> 3156

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aaatgtcaaa aagaccatct tatgccccac ctcccacccc agctcctgca acacaaatgc	180
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 gacaatctcg catggagaaa aggagaaccg tacatgagca ttcaacctgc tgaaagattc 660
 aagatgatta tgatgatggc ttttcaattg aagcatacaa gccaccggcc ccgttttcca 720
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<210> 3157

<211> 694

<212> DNA

<213> Homo sapiens

<400> 3157

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 tctcaataaa atgctaactt gccagtgatt aaatgagtgc ccttccaaag tttcttttta 180
 ccagaaatac agtggattga gactagaaca ttgctttcat ttgggtttgt aggttttaaaa 240
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 tttatgtaat ttttaagggc cttttcagtt catccttttg caaaaccatc accacttaat 600
 tatacttttg catcagtcta gaagactgca tattggnaaa gcaangtaaa tctannatga 660
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<210> 3158

<211> 908

<212> DNA

<213> Homo sapiens

<400> 3158

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tttgggtga 908

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<210> 3159

<211> 187

<212> DNA

<213> Homo sapiens

<400> 3159

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ggngcgc 187

<210> 3160

<211> 602

<212> DNA

<213> Homo sapiens

<400> 3160

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atattttata aaagggttta ttgtcccttg tttatgttaa aatgcttgtt tccatgaggg 120
gtttcttccc tctcaatgcc cctagcccct tgggaaccag aggccccaga gacagtgtgg 180
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gg 602

<210> 3161

<211> 300

<212> DNA

<213> Homo sapiens

<400> 3161

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<210> 3162

<211> 756

<212> DNA

<213> Homo sapiens

<400> 3162

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 aacaaatgtt tanattgcta atggctagca aaaaagatga tccgggtaaa aataatgaag 720
 tttaaagnng caagnactnc caaggattgg catggg 756

<210> 3163

<211> 155

<212> DNA

<213> Homo sapiens

<400> 3163

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ttcctaccag tggccaatgg gnttaagnag aagna 155
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<210> 3164

<211> 648

<212> DNA

<213> Homo sapiens

<400> 3164

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ataggtgcaa ttgcacaaa ttcacagaag atcaattgaa aatcctcatc aataccttca 180
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caccagaacc tgactttaga tttaagccac agccatggnc aagattaacc tgggtgtggag 360
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gatttcatct ccagaggaaa aagagaacct ggtatggcct tagaatgngg naagnccaag 600
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<210> 3165

<211> 741

<212> DNA

<213> Homo sapiens

<400> 3165

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aactgatggc attcacttca cacagtcgtc tatgttatcc agagattttt atttcatttt   180
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nagagggttc aagaaaatcc tttggaaata aaaagttaaa tggttgcaat tcaaggggna   660
atttcaagtc ctcaaggtct gattaactta cttttttccc tttggccttt gggctggatt   720
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<210> 3166

<211> 763

<212> DNA

<213> Homo sapiens

<400> 3166

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ttccttctc ttctctctt aaaactatct tagatgtaga atcctgggtg agggttttat   180
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ttatataaaa atttttatca acactaaact tttaaagttt acaagttttt ttttctttt   420

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<210> 3167

<211> 727

<212> DNA

<213> Homo sapiens

<400> 3167

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<210> 3168

<211> 712

<212> DNA

<213> Homo sapiens

<400> 3168

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aagccatttc agtcaggttc tacaccgttg catctcactc acagattcat gcaagcttca  180
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gaggacttgg taatacgtgg nctcctanat gtnatacaag agagcactgc aaagggaana  660
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<210> 3169

<211> 522

<212> DNA

<213> Homo sapiens

<400> 3169

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atgggcgctt ctgtccagct gcacccgagg ccgggggttt cctcacctc ggtcttccca  180
agatggagat gctaacgaaa ctgagaaggg ggcgtatctt gacgaagggt tgtgcaagtc  240
aggcccttct ggaacacagc agggcctaca acgaggggcc tttgcgatgg gctgtgagga  300
tgggggtggt gggaagaatt ggccacgtta gagaccccat gccacccac catggtgagt  360

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gctctgtgcc tcctgctcac ctgtggtgag ctgggcgagc tgggcgagct gggcgagctg 420
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<210> 3170

<211> 641

<212> DNA

<213> Homo sapiens

<400> 3170

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 accactcagt gctctgttat gaccatgctt tgcaggccag acctgggttt gagcaagcta 300
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 gaaatatcat tcatgaggac tcagatggca aaagaggcac aattaggana tcatcagata 540
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<210> 3171

<211> 747

<212> DNA

<213> Homo sapiens

<400> 3171

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 cctgctcttc ccacagtttt caccatcttg gctaacagcc aatgaccag ggctaaaact 240
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 cagttaattc ttcacattgc tgccatagtt ttacttttaa tatgccagat cacatgactg 480
 cttaaaacgt acgatagctt ttcactcttc ttgggagtaa aagccaaagc cttatcatgg 540
 cttgtaaaat tctgtgtctt ctggcctgca gttacacct ttgactctac atcctatttc 600
 tctctaatat tcctcnaaac atgccaagca ngcttctact tgggggacct ttggcagttg 660
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<210> 3172

<211> 600

<212> DNA

<213> Homo sapiens

<400> 3172

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 agaaattttc ctgcattgct tgtgaggatc ttacataaat caaaactgcg atactatgga 180
 aaacctgata aaaagatgat tgaaccatat cagacctttt tggaagttgc tgacagttca 240
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 cagcctgtcc ccgtggatcc acagatcaaa ctaatttcta caatggaaat ctgcctgaat 420
 cttcgagatc cccnacaaa tataattatc attccagaaa agcaggtgaa accagaatgg 480
 agactgccaa agctaaatca ccgatttacc ccnaggtcag aaactggatg atatgccnaa 540
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<210> 3173

<211> 686

<212> DNA

<213> Homo sapiens

<400> 3173

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ttcggatgct tggcttggtt ttgtgtgat tctgcaagag cggttgattt tggattgagt   60
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ggagctttca gtggttggtt ttcattccctt actggtctca accaaaatat tcctgttgga  180
atcatgatga taatcatagc agcacttttc acagcatcag cagtcatctc actagttatg  240
ttcaaaaaag tacatggact atatcgaca acaggtgcta gttttgagaa ggcccaacag  300
gagtttgcaa caggtgtgat gtccaacaaa actgtccaga ccgcagctgc aaatgcagct  360
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tcaaacaata cactgttacc ttttgactgt acctttttct ccagttactg tattctacaa  480
atatttttat gttcaaaaca cacagtacag acagcatgga tatttcctgt tcacttgtgc  540
atgggctaaa accaagaaaa ctcccttgct ttattacttt acctaatat tcttaatat  600
tcagtgcgcc ctgcanaaaa aatattacat ggccaaataa atattccccc atatttttgg  660
ggggangana ttcnntggaa ttattc                                     686

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<210> 3174

<211> 548

<212> DNA

<213> Homo sapiens

<400> 3174

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aactagccca gccgcgcgga agcgcctggg gagaggagaa ngagccgacc tgccgagatg   60
gaggcgaccg gcacctgggc gctgctgctg gcgctggcgc tgctcctgct gctgacgctg  120
gcgctgtccg ggaccagggc ccgaggccac ctgccccccg ggcccacgcc gctaccactg  180

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ctgggaaacc tcctgcagct acggcccggg gcgctgtatt cagggtcat gcggctgant 240
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gttgggcang aggctgtgcg ggaggccctg ggangtcagg ctgaagantt cagcggccgg 360
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gaacggtgga agcagctgaa gaantttacc atgcttgctc tgcgggacct gggcatgggg 480
aagcganaag cnaagaactg atccangcgg aagcccngtg tctggtggaa acattccagg 540
ggacanaa 548

<210> 3175

<211> 671

<212> DNA

<213> Homo sapiens

<400> 3175

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agaagcagta agaagacatg ttggataaca agaagagggtg tagagtttgc atatatcaac 180
tgtggcctta atgagcatgt tgacagcatc gatgctagac agacagtctt ttactgctg 240
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gctantcgtg aggagccaac cactactcta ccttccatgg gtgagacaaa agttgatcag 480
gaagaactct tcaccagtat ctcagaaata tttctgac tgggacccctg atgtntgtat 540
ttgatgcttt ctgaatgtga tttcnaagtt gaaaatgcta tggattgtct attanaatta 600
tctgcccctg atacnagat agaagaatcc cttccnnaan tttcgttgct tctgaaaacc 660
cagttngtgc c 671

<210> 3176

<211> 250

<212> DNA

<213> Homo sapiens

<400> 3176

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aactctccgg gaggggcgct tcccgacgcc aagtcttact gttgctcagg ctggaatgca 60
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cagcctccca agtagctggg attacagaca aaaggatgcc acggagaaag aaaaaagtta 180
aagaagtctc cgaatctcgg aaccaggaga acaaggatgt ggaaactacc agttctgtca 240
ntgtnanaag 250
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<210> 3177

<211> 740

<212> DNA

<213> Homo sapiens

<400> 3177

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ggatctccag cagtggcggt acttctagcg gctggatacc gggttctccg cgagatcccg 60
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ggtgccggcc ccgacaggac ggtgagccta cccgtatatt acaagaaatc tcaagtcaaa 180
cactggaaaa gatgtcagaa gattcagaaa aggaagacta ttcagacaga acaatcagtg 240
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tattagaata tcagctaggg agatgggtgc cacgtcttcg tgaaccaagg gatttatatg 420
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cgcagtgggt cgatctcggc tcaactgcaac ctccacctcc caggttcaag cgattcgcct 600
gcttcagcct cctgagtagc agagactaca ggcgcggtgcc accacgcca gntaatttgg 660
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gtgatccgnc tgcctcactt 740
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<210> 3178

<211> 638

<212> DNA

<213> Homo sapiens

<400> 3178

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acaccgcgcc ctgccacaga ggctgagctg ctcacctgtc acagtgctga gtacgtgggt 180
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gattgggatg tccaccacgg taatggaact cagcacatgt ttgaggatga ccccagtgtg 540
ctatatgtgt ccctgcaccg ntatgatcat ggcaccttct tccccatggg gggtgagggt 600
gccagcagcc agatnggccg ggctgngggc acaggctt 638

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<210> 3179

<211> 730

<212> DNA

<213> Homo sapiens

<400> 3179

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cacacaggca ggtcgggcag gcgggtcgca ggttgtaaata ccatgtggcg ggggctttgg 60
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gcaccagccc ccggctccgg cgccaccatc ttcgcgctaa gctctggcca aggccgctgc 180
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gcaccccgag acctgcccct tgctcgccac gccagcctgc gcctgctcag cgatccccgc 300
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 ctctgccgtg gctgggcccg agaccctcac caaagctttt ggcccacgtg gaggcctata 660
 tcgatttcgg cgaaggatga caacctggga ngganggggt ncctggagca aggcccgaca 720
 tcgaaagtac 730

<210> 3180

<211> 819

<212> DNA

<213> Homo sapiens

<400> 3180

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 aaaatcaagc atggcgattt gttgttcctg tttccctcga gccttgctgg gccctcatct 120
 gaaatggaga cgtcagttcc accgggcttc aaagtctttg gcgctcccaa cgtgggtggag 180
 gatgagattg atcagtacct cagcaaacag gacgggaaga ttacagaag ccgagaccca 240
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gttggctgga tatttacaga cctcgtctca naagatccc

819

<210> 3181

<211> 703

<212> DNA

<213> Homo sapiens

<400> 3181

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ctttaattgt agctcactgt taaaaaatg tcagataatc catttaggag agaaaaata 180
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tttcagacgt gattcacacc tggcacaaca tattgtaatt cacactggag agaaccctta 600
caagtgtaat gagtgtggca agacctttgt tcaaaattca tctcttgtaa tgcataaggt 660
cattcactact gganagaaat gtccaggtgn aatnaatggg cca 703

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<210> 3182

<211> 798

<212> DNA

<213> Homo sapiens

<400> 3182

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tcagctcgca ctgcatatgc aacgcaactc aactcatgct gcgtatgcaa ctcaactcac 60
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aacttactgc atatgcaact caactcactg cgtatgcaac tcaactcgca ctgcgtatgc 180
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<210> 3183

<211> 825

<212> DNA

<213> Homo sapiens

<400> 3183

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 gaacagatgt tatatagatt tcctatgatg atggaacatt ttatccaaga aatgagatgc 780
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<210> 3184

<211> 831

<212> DNA

<213> Homo sapiens

<400> 3184

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 atttagtnag aagaattcca gtcttataaa ggttgcttta gacactcttg ctgcattgnt 780
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<210> 3185

<211> 824

<212> DNA

<213> Homo sapiens

<400> 3185

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caagcgatcc tcccacctca gcttcccaag tagcggggac tgcaggcaca tgccaccaca    180
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tcatgagtcc ttattcaagc tcctggcctc aaatgccagc tgtgctgaga ccccttatt    780
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<210> 3186

<211> 777

<212> DNA

<213> Homo sapiens

<400> 3186

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catcgtctcc cgagcctgct cctgccgccg aggacatggg tgtggaggca aagaaccatg    240
aagtacacaa cagccacagg aagaaacatt accaaggtcc tcattgcaaa cagaggagaa    300

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attgcctgca gggatgatgag cacagccaaa aaactgggtg tacagactgt ggcggtttat 360
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 ggttatcatg gtgaggacca atcagaccag tgcctgaagg aacacgccag gagaattggc 720
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<210> 3187

<211> 854

<212> DNA

<213> Homo sapiens

<400> 3187

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accgtggntt ccag

854

<210> 3188

<211> 829

<212> DNA

<213> Homo sapiens

<400> 3188

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<210> 3189

<211> 837

<212> DNA

<213> Homo sapiens

<400> 3189

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<210> 3190

<211> 853

<212> DNA

<213> Homo sapiens

<400> 3190

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 aaacattatc cangcttcac agaaagaagt aggaaanggc tgcgatcctt gatgcccacc 780
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<210> 3191

<211> 828

<212> DNA

<213> Homo sapiens

<400> 3191

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 gtcagtactc ttcgggggtac ttncacggtt ttcccatca acccttatgg tgnncaacct 780
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<210> 3192

<211> 763

<212> DNA

<213> Homo sapiens

<400> 3192

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<210> 3193

<211> 841

<212> DNA

<213> Homo sapiens

<400> 3193

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aatgaaggac ggagagttgg aattccacgg gttattctgt cggcatctat cactctctgt 180

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<210> 3194

<211> 848

<212> DNA

<213> Homo sapiens

<400> 3194

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 gacacatata gncagcagct acatagccag atccaggaat cttctttaaa tcaaattcaa 840
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<210> 3195

<211> 653

<212> DNA

<213> Homo sapiens

<400> 3195

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<210> 3196

<211> 836

<212> DNA

<213> Homo sapiens

<400> 3196

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<210> 3197

<211> 789

<212> DNA

<213> Homo sapiens

<400> 3197

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agtgtgtgtg	tgtgttacat	atagataaca	tatgtgttat	atataggtat	tacacataac	180
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<210> 3198

<211> 803

<212> DNA

<213> Homo sapiens

<400> 3198

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<210> 3199

<211> 770

<212> DNA

<213> Homo sapiens

<400> 3199

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<210> 3200

<211> 757

<212> DNA

<213> Homo sapiens

<400> 3200

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caacagaatt accatgatag actttcaciaa attctaacag atttccccaa attggatgat 240
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<210> 3201

<211> 768

<212> DNA

<213> Homo sapiens

<400> 3201

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768

<210> 3202

<211> 815

<212> DNA

<213> Homo sapiens

<400> 3202

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<210> 3203

<211> 512

<212> DNA

<213> Homo sapiens

<400> 3203

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<210> 3204

<211> 777

<212> DNA

<213> Homo sapiens

<400> 3204

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<210> 3205

<211> 807

<212> DNA

<213> Homo sapiens

<400> 3205

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<210> 3206

<211> 856

<212> DNA

<213> Homo sapiens

<400> 3206

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<210> 3207

<211> 857

<212> DNA

<213> Homo sapiens

<400> 3207

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<210> 3208

<211> 860

<212> DNA

<213> Homo sapiens

<400> 3208

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<210> 3209

<211> 863

<212> DNA

<213> Homo sapiens

<400> 3209

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<210> 3210

<211> 782

<212> DNA

<213> Homo sapiens

<400> 3210

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<210> 3211

<211> 851

<212> DNA

<213> Homo sapiens

<400> 3211

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<210> 3212

<211> 847

<212> DNA

<213> Homo sapiens

<400> 3212

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 aaactcaatt ttgganggt taacacaccc tattcagggt gactaaacac ttcataacca 780
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<210> 3213

<211> 838

<212> DNA

<213> Homo sapiens

<400> 3213

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tttgacata attggtttat atcatagcag taaatatttg caagaaatcc ccttatngcc 780
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<210> 3214

<211> 852

<212> DNA

<213> Homo sapiens

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<210> 3215

<211> 836

<212> DNA

<213> Homo sapiens

<400> 3215

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<210> 3216

<211> 839

<212> DNA

<213> Homo sapiens

<400> 3216

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 ggagaaacct gatgattcat tncacacact atgatctgcc ttctagtaag gtcaatgaaa 780
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<210> 3217

<211> 831

<212> DNA

<213> Homo sapiens

<400> 3217

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<210> 3218

<211> 786

<212> DNA

<213> Homo sapiens

<400> 3218

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<210> 3219

<211> 707

<212> DNA

<213> Homo sapiens

<400> 3219

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<210> 3220

<211> 706

<212> DNA

<213> Homo sapiens

<400> 3220

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<210> 3221

<211> 744

<212> DNA

<213> Homo sapiens

<400> 3221

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<211> 804

<212> DNA

<213> Homo sapiens

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<210> 3223

<211> 704

<212> DNA

<213> Homo sapiens

<400> 3223

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<210> 3224

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3224

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<210> 3225

<211> 644

<212> DNA

<213> Homo sapiens

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<210> 3226

<211> 645

<212> DNA

<213> Homo sapiens

<400> 3226

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<210> 3227

<211> 865

<212> DNA

<213> Homo sapiens

<400> 3227

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<210> 3228

<211> 859

<212> DNA

<213> Homo sapiens

<400> 3228

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<211> 820

<212> DNA

<213> Homo sapiens

<400> 3229

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<210> 3230

<211> 860

<212> DNA

<213> Homo sapiens

<400> 3230

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<211> 886

<212> DNA

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<210> 3232

<211> 599

<212> DNA

<213> Homo sapiens

<400> 3232

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<211> 868

<212> DNA

<213> Homo sapiens

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<211> 867

<212> DNA

<213> Homo sapiens

<400> 3234

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<211> 839

<212> DNA

<213> Homo sapiens

<400> 3235

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864

<210> 3237

<211> 811

<212> DNA

<213> Homo sapiens

<400> 3237

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<210> 3238

<211> 857

<212> DNA

<213> Homo sapiens

<400> 3238

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<210> 3239

<211> 864

<212> DNA

<213> Homo sapiens

<400> 3239

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<210> 3240

<211> 559

<212> DNA

<213> Homo sapiens

<400> 3240

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agcgcggggg ctctcgggcg cccgaggtct ccgacgcgcg gaaacgctgn ttcgncctag 540
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<210> 3241

<211> 871

<212> DNA

<213> Homo sapiens

<400> 3241

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aacttccttc caaccgaagg ccctggcttg caaaacttgt ggtngggccc ttttactttt 840
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<210> 3242

<211> 811

<212> DNA

<213> Homo sapiens

<400> 3242

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<210> 3243

<211> 806

<212> DNA

<213> Homo sapiens

<400> 3243

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aagaactggt ccgntttcaa gancgt 806

<210> 3244

<211> 796

<212> DNA

<213> Homo sapiens

<400> 3244

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<210> 3245

<211> 714

<212> DNA

<213> Homo sapiens

<400> 3245

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gcatcgtttg taaagaaacg taagctcaag gtgtcacagg agccatttgt cttncgcgag 660
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<210> 3246

<211> 763

<212> DNA

<213> Homo sapiens

<400> 3246

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gccgagatcn tgccactgca ctccagcctg ggtgacagag cgggactctg tctccaaaaa 540
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<210> 3247

<211> 861

<212> DNA

<213> Homo sapiens

<400> 3247

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<210> 3248

<211> 721

<212> DNA

<213> Homo sapiens

<400> 3248

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tcatggaaga gtttttaaac cagtgtgagc cactgcccc a tttgtgttg atgccaatct 180
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<210> 3249

<211> 841

<212> DNA

<213> Homo sapiens

<400> 3249

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<210> 3250

<211> 857

<212> DNA

<213> Homo sapiens

<400> 3250

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<210> 3251

<211> 754

<212> DNA

<213> Homo sapiens

<400> 3251

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<210> 3252

<211> 736

<212> DNA

<213> Homo sapiens

<400> 3252

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<210> 3253

<211> 655

<212> DNA

<213> Homo sapiens

<400> 3253

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ggagcgcctg gaccagtatc ggcaggatgg agtcagggtg ggggtgaggg atcacgctat 540
ccctgaagga gccagatgca acaggttttag gaaaggcagc agacacgtnc cantctggaa 600
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<210> 3254

<211> 755

<212> DNA

<213> Homo sapiens

<400> 3254

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ggcancaggt ggtataggaa aattagaggg agangaccgt gatgtaaaat gcctgtcaga 720
aaaaagacac cnttgataca agcattgctt actcc 755

<210> 3255

<211> 834

<212> DNA

<213> Homo sapiens

<400> 3255

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<210> 3256

<211> 658

<212> DNA

<213> Homo sapiens

<400> 3256

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<210> 3257

<211> 710

<212> DNA

<213> Homo sapiens

<400> 3257

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 aaaaaaacac ataaacctga ctaaactcgg cttaaagtga caaaaacatc ctggaaatga 240
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<210> 3258

<211> 826

<212> DNA

<213> Homo sapiens

<400> 3258

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<210> 3259

<211> 842

<212> DNA

<213> Homo sapiens

<400> 3259

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<210> 3260

<211> 843

<212> DNA

<213> Homo sapiens

<400> 3260

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 tgagtggaga ctagacgagg ccacggacag cttcttccaa aaccagact cgtccacag 180
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 catggagaag ctaaaggctc ttctgccaaag actggagcag gagctgaagg acacagccaa 480
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 aaattagtgt tatctggaag gtttaaattt ttagatctct ggacacattc ttaatggaac 780
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tgn

843

<210> 3261

<211> 761

<212> DNA

<213> Homo sapiens

<400> 3261

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aacctcaagg agctgcggga gcgagtactc agagggaagt accgggtccc tttctacatg  180
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acgagcacgg gggaagcgga gctgaangaa gaaccggctt gncaggcccg gaaaggcgaa  720
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<210> 3262

<211> 776

<212> DNA

<213> Homo sapiens

<400> 3262

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 ggagctcagc tgcattggaan gcagcttgcc gttgttcgtt cccaaccagt gagctggaaa 720
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<210> 3263

<211> 768

<212> DNA

<213> Homo sapiens

<400> 3263

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ggaggttgca gtgagcagag atggtgccgc tgcagtccag cctgggtgac agagcgagac 660
tctgtctcaa aacaaaacaa aaaccacaca cacatacaga aatnaagaga aatnatcaac 720
tagaaaaaaa acaaaacttg gatcaccagc aaagagcgtc acagangc 768

<210> 3264

<211> 840

<212> DNA

<213> Homo sapiens

<400> 3264

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<210> 3265

<211> 846

<212> DNA

<213> Homo sapiens

<400> 3265

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aggttataga tgaccaggag aacctagctc atagcaggag gaccaggga gatagaaagg	180
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<210> 3266

<211> 872

<212> DNA

<213> Homo sapiens

<400> 3266

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atggtggtcc ctagagagtg cagctaggtg tggggaggaa gcagacttat ttactttat	180
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<210> 3267

<211> 844

<212> DNA

<213> Homo sapiens

<400> 3267

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<210> 3268

<211> 726

<212> DNA

<213> Homo sapiens

<400> 3268

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aacaggaagc catgcggcga gccaccgtgg agcgggagat ggagctgcgg cacaagaatg 660
agatgctgcn agtgggaagcc gaagcccggg cgcgcgccaa aggccaaacg ggagaatgcc 720
ngacnt 726

<210> 3269

<211> 704

<212> DNA

<213> Homo sapiens

<400> 3269

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<210> 3270

<211> 741

<212> DNA

<213> Homo sapiens

<400> 3270

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ttgtctaccc cgggaccccg gccagcggg gctcgggacc gcgcgccggg agctgcgggg 180
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cagaggtgaa ccaggatgtg agccggcagc tgcttcagga tgggtatcac ctggatgaga 480
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cctgctgctg gtgctgtctt ggggactctt cttcctgtac ctttcagtag acattaccct 600
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 cctggtgctt ctcaggccag a 741

<210> 3271

<211> 855

<212> DNA

<213> Homo sapiens

<400> 3271

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 ccaggcatgg gtcgataccg cgaggggttc aaatattctg aactaacctc tntcttctgc 780
 aaaagggtca ttgcatact tacacacttg catggnttcc cctgcttcca tacatttctt 840
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<210> 3272

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3272

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aagtgtcgtt gccctctgcc gctgctcccg tctctttggc tacgctcgtc agccggtcgg 60
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<210> 3273

<211> 728

<212> DNA

<213> Homo sapiens

<400> 3273

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ccagcaggcg ggcctggagc cctactttga cttcatcctc accattgggc actcagggtt 240
gaacaaggag aatgacaccc tgaaggcact actgaaagcc aatgtggaga agcccgtgaa 300

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gctggaggtg ttcaatatga agaccatgag ggtgcgcgag gtggaggtgg tgcccagcaa 360
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 cagtgagcag gtgtggcatg tgctggatgt ggaaccatct tcacctgctg cccttgccgg 480
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 cttcttttacg ctcatcgagt ctcatgaggg gaagcccttg aagctgatgg tgtataactc 600
 caagtcagac tcctgccggg aggtgactgt aactcccaac gcagcctggg gtgganaggg 660
 caggtacttc gtgggggttg agggctgnan ggccaggtgg gttggggcct gacattgggc 720
 atggacct 728

<210> 3274

<211> 834

<212> DNA

<213> Homo sapiens

<400> 3274

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 aatcattgat gaccacagag ctgggaaaat tgttgtgaac ctacacaggca ggctaaacaa 240
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 aaaaagagac agggttggcc aggcacagtg gctcacgcct gtgacccatg cattttgggg 660
 angctgangc aggcggatca cctgaggttg ggagttcgag accaccctgc caacatggag 720
 aaccccgtgt ctacctaaaa tccaaaatta gccagcctgg tggcacacac ctgtgatccc 780
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<210> 3275

<211> 780

<212> DNA

<213> Homo sapiens

<400> 3275

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ccaggaacat cagcaaagag aaccaaagaa aaaatgtctg tcaaaggcag taaagtgtc 180
tgccctaaga aaaaggcaga gcacactgac aaccccagac ctcagaagaa gataccaatc 240
cctccattac cttctaaact gccacctgtt aatctgattc accgggacat tctgcggggc 300
tggtgccaac aattgaagct gagctccaaa ggccagaaat tggatgcata taagcgctg 360
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cggaaatcat tgcaaaaaaa attaaagggt gaaaaggggg aaacgtccct gcaaagttct 480
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cccaagangc ctttggtgtc aagtgggtgtg tggatcatgg gaaaagtctn ccttgcagac 720
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<210> 3276

<211> 790

<212> DNA

<213> Homo sapiens

<400> 3276

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agtaaaggcc ggaccagaat atggccaagg gatgaaccct attagccgcc tggcgcaaat 180
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 acctataaaa aagatagcca aaaaaaatgc tgcagaagca atgctgttac aacttggtta 360
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 tacagcttga agccataggt ttaaaaggaa gttctnctac ttnccttgg tcttcagtac 720
 aacctttaaa acaactggaa tathtagcaa ggattcaagg ctttcaggtg tgaattaaaa 780
 gcaaaaaccn 790

<210> 3277

<211> 638

<212> DNA

<213> Homo sapiens

<400> 3277

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 cgctgcttag cccctccgcg tagtcatcat ggatctgatt ttaaaccgaa tggattatct 180
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 aggcttcaca aaaagaggaa aacagttcct ctcttttgaa acaaacctca ctgaaagcat 480
 taaagctatg cacatatctg gctcagacct cttctcagt gcaagttaca tctataacca 540
 ttattgtgac tgcaaagacc aacattatta cttttctggg gataaaatca atgatgtgat 600

ctgnctttca atggaaagaa tatntcgtat nacacctg

638

<210> 3278

<211> 703

<212> DNA

<213> Homo sapiens

<400> 3278

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aaatctatga ttactgcag tagtatgtgc ttaaaacaac tgttgaggtc ttttaagcag 180
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gaatttgcat ttgttacatt acattgccag cgcataatcat ttagcaagtt ggcattaaca 600
tttatgcitt aattaaatgc cagtatacct atgtgtgcag cagtaaaaaa ttagtgagaa 660
aaagcaactt tttncaactc ttangnaaaa ttttggctta ata 703

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<210> 3279

<211> 752

<212> DNA

<213> Homo sapiens

<400> 3279

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aaagcggcgg gagggagccg agagacccga gtgcacgtgt ggagaagcgg cggcacaagc 60
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cttcgttgct cgcacagctc cctgcccagg ctaggaggcc ggcttgcggt gttgagtggc 180
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 tgtccagatc agcaatgagt cggcaattga cttctacagg aagtttggct ttgagattat 660
 tgagacaaaag aagaactact atnagaggat agagcccga natgctcatg tgctgcagaa 720
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<210> 3280

<211> 791

<212> DNA

<213> Homo sapiens

<400> 3280

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<210> 3281

<211> 897

<212> DNA

<213> Homo sapiens

<400> 3281

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 ngatgtgtcc agtttggtc tacggtgatg tgattcttgc aggtaaaaga ccattaggtg 840
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<210> 3282

<211> 777

<212> DNA

<213> Homo sapiens

<400> 3282

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<210> 3283

<211> 800

<212> DNA

<213> Homo sapiens

<400> 3283

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agagaatatt tcgttgaaga tacagaatgc cggaccctat gtgaggggcc tcagagattt 360

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gaagaatatg agtatttagg gtataaggct ggtctgtatg aagctattgc agatcactac 420
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 ctctctccca tcgagaattt tcttcctctg cactatgatt acctacagtt tgcctactat 540
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 gaccggcat ccattgaggc cagagaggat ttaacaatgt tcgtgaaacg tcataagctg 720
 gagtctgagc tgataaaatc agctgcanaa ngctctgggt ttcactactg aaccgaatta 780
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<210> 3284

<211> 831

<212> DNA

<213> Homo sapiens

<400> 3284

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<210> 3285

<211> 901

<212> DNA

<213> Homo sapiens

<400> 3285

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<210> 3286

<211> 800

<212> DNA

<213> Homo sapiens

<400> 3286

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<210> 3287

<211> 896

<212> DNA

<213> Homo sapiens

<400> 3287

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<210> 3288

<211> 919

<212> DNA

<213> Homo sapiens

<400> 3288

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<210> 3289

<211> 849

<212> DNA

<213> Homo sapiens

<400> 3289

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<210> 3290

<211> 704

<212> DNA

<213> Homo sapiens

<400> 3290

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<210> 3291

<211> 792

<212> DNA

<213> Homo sapiens

<400> 3291

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<210> 3292

<211> 859

<212> DNA

<213> Homo sapiens

<400> 3292

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<210> 3293

<211> 710

<212> DNA

<213> Homo sapiens

<400> 3293

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<210> 3294

<211> 870

<212> DNA

<213> Homo sapiens

<400> 3294

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<210> 3295

<211> 845

<212> DNA

<213> Homo sapiens

<400> 3295

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<211> 858

<212> DNA

<213> Homo sapiens

<400> 3296

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<210> 3297

<211> 887

<212> DNA

<213> Homo sapiens

<400> 3297

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<210> 3298

<211> 799

<212> DNA

<213> Homo sapiens

<400> 3298

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分

冊

Separate Volume

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 ttacagttct tactccttgt ggttttgcag tgactcttgt tcagcacggg gcctgaggtc 720
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<210> 3301

<211> 893

<212> DNA

<213> Homo sapiens

<400> 3301

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ttagcagtca cgacctccag cacaggatgt ggtaccacag attgtccac ctacacagca  180
ggcttcagga cttgctgaag ggaggagtca tatatccggc cttccacag cccaacttca  240
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cagagaaacc atttatggga ggatgtggga tttcacttta aaacttnttc cagaggtgac  840
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<210> 3302

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3302

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agggagatgg tgaactgttt tgtcagaact taaatggaaa aaaaaataaa actacaacaa  180
gcctaccttt tataactggg tgttttagtgc taaacagcca gaaccacaga gacagtattg  240

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 ttccattgta gattgggtta ttttacacgc agttcgccaa atgggattgc tctgtatagt 720
 caaattggtg atggacagat ggacagaatg cagangtaca tagatgagct gangctgatc 780
 cancttcctt gaaattcaaa gtgtaacttt gta 813

<210> 3303

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3303

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 catggatctc tcctttatgg ccgcgcagct gccatgatg gggggagctt tcatggactc 180
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 ggcaaggcct tcagagggca gattggggat ccttgaaact acattccang aacatgggac 660
 cagatgagac agctagttaa gtttaaaaca tagacatgat ttgatgatc cttgcttgtg 720

gtaaataatc actcngtgn cttggtttta tgcaaactta tcgaacctta nggc 774

<210> 3304

<211> 765

<212> DNA

<213> Homo sapiens

<400> 3304

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gtgcagccgc ccatactcac catcacctgc cccaccttcg gtgactgggc tcagccggca 540
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ccaccgtccc ccttcgagct gctggagccc ccgaccttcg ggggcttctc nagctgggcc 720
ggcctgctgc tacatcttnc ctggagcctc gggatccgct tcttc 765

<210> 3305

<211> 884

<212> DNA

<213> Homo sapiens

<400> 3305

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 gaataaaaca atttaagaaa ttggtttaag atattggatg atagaagaca ttttaagatat 600
 ctagatgggtg atattttcct tacaagatgg gtaccagtat agtaatatct gtatactaac 660
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 gaaatatgat aatgtaaaac catcaaattt tataattgag atgatactct ggaaaaacat 780
 gtcatttcat tttcagaaaa ctcttaagct ctcttcagtc tctgtaaggt tctgaatgca 840
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<210> 3306

<211> 708

<212> DNA

<213> Homo sapiens

<400> 3306

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 atgatgcatg gcttaaaacc tttgtctcta gtcaaaagaa cagacanaga tctcatcatt 180
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 cttcagctag agcaaagccg agcagccaat caagaacaac gagctaata cttggaacaa 360
 attatggaaa gtgtgaaatc caaaattggg gaattggagg atgaatcact aagtagggct 420
 tgccaccaac agaattaaat gaangatctt caaaaggagc agaaaacttt acagggtgaag 480

tgccagcatt ataagaaaaa acgaacggag cangaagaaa ctattgcttc ttgcaaattg 540
gaagtctgta gattaaaaaa ggaggaagaa gatcgattg tcaactcaaaa cagagtgttt 600
gcctatctgt gcaaaagagt tcctcatccg tcttgatag acagttgctt tggctaattg 660
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<210> 3307

<211> 844

<212> DNA

<213> Homo sapiens

<400> 3307

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gcccagagcag cttctgaatt tgaaagctca gaaggggtgt tccttttccc tgagcttcgc 120
atcatcagca ccatacagag agaagtggag cctgaagggg acggggctga ggaccccaca 180
gttcaagaat cactgttgct cgaggagatc gtgcacgacc tggatacctg tgaggtcacg 240
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aacgaattta aggtggaggt gaatgtaatc cacacggcca accccatgga acacgccaac 540
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gcccggacat cggcggacca tgcgggatca ggacaccggg aaggagaacg agatggactg 780
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<210> 3308

<211> 697

<212> DNA

<213> Homo sapiens

<400> 3308

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acttccgccc caggtacgct aggccgcggc cttcgttcct cccagaaagg agatggtgac   60
attcaaggat gttgctnggg ncttactga ggaggagctg gggctgctgg actctgtcca  120
gaggaagctg taccgagatg tgatgctgga gaacttcagg aacctgctct tagtancaca  180
tcagcccttc aagccagacc taatatccca gctggagaga gaagaaaagc ttttgatggt  240
ggagacagaa accccaaggg atggatgttc aggaaggaag aatcaacana agatggagag  300
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tcagatttct gaagataaga actatatatt gactcatata gggaatggct ccaattatat  540
aaaaagtcaa gggatatccat ctgggagggc acatcattct tggaggaaaa tgtatctgaa  600
agagtcacat aattatcagt gtagatgtca gcaaatttcc atgaaaaatc atttctgtaa  660
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<210> 3309

<211> 770

<212> DNA

<213> Homo sapiens

<400> 3309

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gaggcagaac aggccgtcag ccggagtgcc aacctggtga acccgaagca acaagaaaag  180
ctttttgtga aactggcaac ttcaaagacc gcagtagagg actcagacaa agcatacatg  240
ctgcacatcg gcaccctgga taaggctccga gaagagtggc agagtgagca catcaaggcc  300
tgcgaggcat ttgaggctca agaattgtgaa cgaataaact tcttccggaa tgcattgtgg  360

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ttacatgtga atcagctgtc acaacaatgt gtcaccagtg atgaaatgta cgaacaagtc 420
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 aatgcagtcc cagcaggaaa ggctacaggg cctaacttgg caaggagagg accccttcca 600
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 tatcagtaaa atcaatgaaa ccagagcttt ttccggtagt gcttctggga tattggaang 720
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<210> 3310

<211> 865

<212> DNA

<213> Homo sapiens

<400> 3310

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 gggacatgtc agcccccaag tagagctacc accatacctg gagcgtgtga aacagcaagc 180
 caatgaggct tttgcctgcc agcagtggac ccaagccatt cagctttaca gcaaggctgt 240
 gcagagggcc cctcacaatg ccatgcttta tggaaaccga gcagcagcct acatgaagcg 300
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 acgctcagta tatcgagtg gctntgacga tggctccttc ttcatctggg aaaaggagac 780
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<210> 3311

<211> 756

<212> DNA

<213> Homo sapiens

<400> 3311

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aaacagggat cttgctatgt tcctatgggt gtcttgagct ccttagcctc ctaaagtgtt  180
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cttgggctca agtgatcctn ctgcctcagc tcctgagtag ctgggactac aggtgtgcac  720
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<210> 3312

<211> 916

<212> DNA

<213> Homo sapiens

<400> 3312

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atccggattg tcttgagaa cagtagccgg gaagacaaac atgaatgccc ctttgccgc 180
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 gaaggacgca atgactacca cccgatgttc ttaccatg accgagcctt tgaagagctc 300
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<210> 3313

<211> 809

<212> DNA

<213> Homo sapiens

<400> 3313

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acccacagac tctggaaacc ctggagaagg ttgattatcg taaatacgtg gcggtaaate 720
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canttggggg aaaangggga agaccaaatt 809

<210> 3314

<211> 863

<212> DNA

<213> Homo sapiens

<400> 3314

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attcttattt tgaggtatct tttggaaata attgaaagag attaaataac aatttatgcc 240
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agngtataaa agatacangt atgctactgg atgtaccga taattgtttg agagtttcta 780
gtgaaaaact caaatattgc tagcttaacc acagtagtag ggggcaacct tattatatgg 840
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<210> 3315

<211> 786

<212> DNA

<213> Homo sapiens

<400> 3315

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tttctgtacc gattgctttt tgtgtgtgtg gtataataaa atctttattc aattttacag 660
aagcattgat ggcagtcgaa atgtctctag ctcatataac ttaataggna ataactaaaa 720
aacttttaga atttactttt gaaangangg gaaccggttc tgaaatgagt atagggtgat 780
tcatag 786
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<210> 3316

<211> 662

<212> DNA

<213> Homo sapiens

<400> 3316

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ctgagaacgt gctaggcctg gtgccccaaag ccctgcctaa ggctgacggg cgggcagggc 180
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 tgctcctgca tgcacgtgaa cacaatgaca aggggctcgn catgcagtgc tcacatttgg 600
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 ct 662

<210> 3317

<211> 824

<212> DNA

<213> Homo sapiens

<400> 3317

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 agtatgctcc attcaaata ccatatac tcatatttgc cacatcaacc aatggatgct 180
 atctgcgcag ttgagatctc cagtaaagaa tatctgctgt gttttaacag cattgggata 240
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 aataagatgg cagaagggga cgaactggta gtacctgaaa catcagataa tagtcggaaa 540
 caaatgggta gaaacattaa caataagcgg cgttattcct tcagagtccc agaagaggaa 600
 aggatgcagc agaggaggga aatgctacga gatccagaaa tgagaaataa attaatttct 660
 aatccaacta attttaatca catagcacac atgggtcctg gagatggaat acagatcctg 720

aaagatctgc ccatgaaccc tcggcctcag gaaagtcgga cagtattcaa tggctcaagt 780
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<210> 3318

<211> 725

<212> DNA

<213> Homo sapiens

<400> 3318

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gagaccagga gtgtcggagg ctgcctctgg aagccaggag aactggactt caaccgaaat 660
ttgaaagaag tggtnccagc cattgagaan ctgtttgtcc antgacttgg aaaggagaag 720
gttct 725

<210> 3319

<211> 864

<212> DNA

<213> Homo sapiens

<400> 3319

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 ctcgcccccac ggnacccag ctgaccgcg acctgctgcg gagccgtggc attgccggtc 660
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 ttcaccttc accagnтна cgag 864

<210> 3320

<211> 840

<212> DNA

<213> Homo sapiens

<400> 3320

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 ctggagctac aagaccacgg atgacatcgt gaaggttgaa gtctgggatg tagtagacaa 180
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agtcacccctg ccggacgacg tgcgtgactt catcgacaac ctggacagca gacctccagg 480
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 nctaaccctt gagaaaggct gtggggacctg ctengagatt ggctgctggc aagggggccca 720
 gcgttctttac ttgcacctgc ctgcttcttg ggtnggcaag aagggtacag gggtccttga 780
 agggccttaga cccaantcc caaggaagcc ccctccaacc ttttttgcng ggggaacccc 840

<210> 3321

<211> 776

<212> DNA

<213> Homo sapiens

<400> 3321

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 cacctcactt gttcttttgg gcgaagtgtc gcattggaag aagtgttga taaagatgac 180
 atggtataca tgggaagcata tgataaattg ttggagtcct ggttaacttt ggttcaagat 240
 gacaaacatt tccataaagg cttttttacc caacatgcag ttcaagtttt caattcctat 300
 attcagtgcc acctagctgc tccagatggc acaagaaatt tgactgcca tggtgtggcc 360
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 caactggcca gtgtaggaat gctaggaaga attgctgcag aacactgtat acctcttctg 480
 acaagtttat tagaagaaag agtaacaaga ctccatggtc agtcacaacg acatcagcaa 540
 cagttacttg cttcaccggg ttcaagcact gttgacaaca aaatgcttga tgatctctat 600
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 gagactccgc taatacctnc agaaataatg gaatattcca ttaagcattc atctgaagtt 720
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<210> 3322

<211> 697

<212> DNA

<213> Homo sapiens

<400> 3322

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cgggtgctcga ggaggagggg aggaggcggg gaaggcgaaa ggaggggttc ggaggagagg 60
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agcgggaggg aagttgtagt acgggtgggg agaaccacac taaagggaga tgggggtgag 180
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agggagtgga tactcgacag ctttcggcct ccgctcgctt ctccctgcgc gctttcctgc 480
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ggctctgagg cctggtggta gcggccactg ccgcggattg ctgttgcgga cccggggcgg 660
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<210> 3323

<211> 760

<212> DNA

<213> Homo sapiens

<400> 3323

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ccaccatgag ctacacaggc tttgtccagg gatctgaaac cactttgcag tcgacatact 120
cggataccag cgctcagccc acctgtgatt atggatatgg aacttggaac tctgggacaa 180
atagaggcta cgagggtat ggctatggct atggctatgg ccaggataac accaccaact 240
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acactagtgc ctcgggtagc gccagtgccg attccgtttt atccagaatt aaccagcgct 360
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gagaaaggta tgactcttat gagtcctgcg actcgagggc cgtcctgagt gagcgcgacc 480
tgtaccggtc aggctatgac tacagcgagc ttgaccctga gatggaaatg gcctatgagg 540
gccaatacga tgcctaccgc gaccagttcc gcatgcgtgg caacgacacc ttcgggtcca 600
gggcacaggg ctgggcccgg gatgcccgga gcggccggcc aatggcctca gctatgggcg 660
catgtgggaa gaccccatgg gggcccgggg ccagtgcatt tctggtgcct ntcggctgcc 720
ttcctttttt ccagaacatn atncccgagt accggatgtt 760

<210> 3324

<211> 790

<212> DNA

<213> Homo sapiens

<400> 3324

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tattggaagc cttgtatgat ggtagcctag gagactgtaa agaagctgct gaaatttata 180
gagcaaattg tcataagctt ttcccttatg ctttggcttt catgcctcct ggatatgaag 240
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cttgccttca aatagtgttt tacgtttttt atcctgctga aaaagtatat ataaaatata 480
taacattaca ggatagaggt tcagtttctt aaaaaattaa agctgctaaa attgagtggg 540
taaaaaagat acctatcct attcctcccc acccaccat gtttttaaac taatttatat 600
aaaatctgga ggctgttaca gctaacaaag caggtgtgtg gcagaaatat tactttaaat 660
ttgtcttgtg agattttact atatctcaga cagcataaat gctggtttag cactggattc 720
tttactgag caciaagagt tgntggggct ttagcatctg actggatttg gtacngggnt 780
gattcttacc 790

<210> 3325

<211> 797

<212> DNA

<213> Homo sapiens

<400> 3325

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aaccaaggaa agaaaataca gagaccctag aagtggatcc aaatagaagg gacaagtgtc 660
ttcagtgaag aaaagggaat tacacattga atcgacacat cagtaatacg atacagtga 720
atgggcctct aataagaatt tcaccgagtt ttctgatgtg ccattttttg gcttttataa 780
atntcntntt ataaatg 797

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<210> 3326

<211> 822

<212> DNA

<213> Homo sapiens

<400> 3326

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gacctcccag tctgcggcca tgaacgcgag cagcgagggc gagagcttcg cgggctcggg 180
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tgcgggtgcca cacgggcgtg aagccctaca agtgnagac gtgtgacttc nccgttgccg 780
acagcaacag ctnaacagca ccctgaggat ccactcggac ca 822

<210> 3327

<211> 660

<212> DNA

<213> Homo sapiens

<400> 3327

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aggaggtgga acccacaaaa tccattgct tttcacactg canggctgcc cgttatttcc 600
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<210> 3328

<211> 805

<212> DNA

<213> Homo sapiens

<400> 3328

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 gataccaaga attaaaaatg cttgtctaca aacatcttcc cttgcgggtc gtgtaaattc 120
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<210> 3329

<211> 793

<212> DNA

<213> Homo sapiens

<400> 3329

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actaagtctt tcctggcaga tgccggctat ggCgaacagg aactggatgc caactctgcc 180
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ggtttagcga caccagtaga cttgaagcta aaattgatcc cattctacag cacatgcnc 720
atgatgcaat ctggcttnc agtgctcgtc aacttttaca acagctggca catnctatcc 780
gtcaccaaaa tgg 793

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<210> 3330

<211> 706

<212> DNA

<213> Homo sapiens

<400> 3330

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gagaggagat tgcagcagcg aaccaatccc aagggaacga tcagcgttgg agtagatgcc 420

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accgaccttt ttgatcgcta tgatgaggag tatgaagatg tgtccggcag tagctttccg 480
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 aactttgcgc tcagaccagt tacttnggca aagggatggg gagagttgga atttggagct 660
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<210> 3331

<211> 814

<212> DNA

<213> Homo sapiens

<400> 3331

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 cctgccaag ctaatctgtg gaggaataaac actaccaaga acgttattgg atattttggc 180
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 gagcagattg ggagaagagg ttaatgggga agcaacagaa tctcancaga agccaagaaa 660
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 acatnaaaga aagcctctgg ggggtgggcta ttctgncaga aaatcacctc tttatgataa 780
 ctgntttctt catgctcctg atggacaagc ccct 814

<210> 3332

<211> 794

<212> DNA

<213> Homo sapiens

<400> 3332

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tgaaggaagg tgtacaaggc cactgaatg tatctctcag tgaagaagga aaatctcaag  180
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ttaacgtaat gtaaaattta acttgaagta agcattcttc taaacttgta aattcattaa  480
gcatttggtt aacactaata tagtatagtg cttaaaagta aaggctctgt aaccaaactg  540
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tgcacatgaa gcatttagaa gcatgtctgg tatgtantgg gtgcttaata aattccagct  720
atcttaattt attatagnta tggattattc ctgtggatag ncattctagg ataaagggga  780
tttaaactgc ttcc                                     794
    
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<210> 3333

<211> 875

<212> DNA

<213> Homo sapiens

<400> 3333

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ttcttagata taataagttc taatttttcc ttacttggct catttttaac ccttttatct  180
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ttgtacaaaa accagttgtt gcctatttta tttcttctgt ccataccctg tctgtctatg 480
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<210> 3334

<211> 747

<212> DNA

<213> Homo sapiens

<400> 3334

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agaagttttt acaaagaaca tgctcacatc ttcaggtgcc tcattcacat acgtcaagga 480
aattgaggtc tggaggcggc tgggtggaat ccaattcccc gcggagcatg gctggaagga 540
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tggctactgc aatagttgct gggacaccaa aggttanag gacagtgtgg ccaagacctt 660

ngagaaatgc atcattgaag cccgtgagct caacctggca ggtgaacaat cttttcttct 720
gggnaacgga ttcggcttac anctggg 747

<210> 3335

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3335

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cacggcgatg agacctggag ttacaaccac cccatccggg gccggggccaa gtctcgcagc 360
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cacgcacctc atggaggaga acatgatcgt gtattgtgga aaagaaaagt gctngaagac 660
ccttgccatc ggcagccaat gaaaagcttt tgggggcaag tggaaagaaa gaaaaatttc 720
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<210> 3336

<211> 669

<212> DNA

<213> Homo sapiens

<400> 3336

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ggcctcgcgc tgtggatgat gatggccttg cccccgtgag ctacaacctg gccttcagca 180
cccgcccacc tccaaccagc aggatgcggc tgtggaaggc ggtggtggtg actttggcct 240
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acccctggtt ttgggccctg ttcgtgtgga cgtacatttc actcggcgca tncctnctgc 600
tctggtggct gctgtcaccg tgcgggcaag gcaccaagc cctggaccag gggcggncac 660
cgaggctta 669

<210> 3337

<211> 769

<212> DNA

<213> Homo sapiens

<400> 3337

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ctgagtaact gcaaggcgcg ctttgaggag tagcacgcag agagtgtcaa tgaagacctc 180
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tcaaactcat cctcaccatg catcaactgt tcagactggt tttgggacaa aaagatcttt 360
cacgagctgg ggacctcttc tccttagatg actctgagat tgaagacagc cttacagaag 420
ctttggagca aattaagata attagctcat cttcagatta ccaaaccaat aacaatgacc 480
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ttgaaaagca tgcaaaggcc cttgtggggc tctgggactc ctgcttgga cataacctga 600

gacccttttg gaaagacgaa gacacttctc atgcaaaaat cgcatctgat atcatgagtt 660
gcattttaca gaattacaac cgacccccag tgatggcatt agccattccc attgcagtga 720
aaattcttca cagaggcaac aaggnaactgt gcnggaatat gnctaacta 769

<210> 3338

<211> 677

<212> DNA

<213> Homo sapiens

<400> 3338

gagaacaacg gaggcagagg agctgaagac tccagtatgc aactgactac aaggaggtag 60
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ggtgaccccg ggccgggcgg agacaggtga atcccaagag aggaggaaga gggagggaca 180
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gagaatgaga accggcagtc tagaagccgg gaggtcgggg cctagtccgg aaccagggcc 420
tcaagcgtgg ggatggaatg aagaagcctg tggtccttg cgcgcgggcc atagtaggaa 480
ccacagagag ggagcaaagc aatgcattcg gcctgacgag agctatgaag gcgggggtccc 540
gggcgggagt ggctcaatgc ccgccgggcc gaggttaggg gtgacaggcc cggttaccgg 600
ctaaatcctc ccaccgnttg ccggacctta cacttaccaa gatccgcttg aaagcgcatt 660
cttcttgggc nggagnt 677

<210> 3339

<211> 717

<212> DNA

<213> Homo sapiens

<400> 3339

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 ggagcggttac atgaaggaac tggaacagta tcagaaaaca gaggcctaca aggtcttcaa 660
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<210> 3340

<211> 908

<212> DNA

<213> Homo sapiens

<400> 3340

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 gcacatcatc gacactggcc tggagtattg aagggtggtat caggatgcca catatcctta 180
 tttcagattc cattaccaga agatgggatg caatttggag gatcaatgag cttacatgga 240
 aatcatatga cactggcatg ttttcatggt ccaaattttc gttcaaaaat ttgggccctt 300
 tttcatttag aagaaccaa tattgctttt tggactgaag ctgagaaaat ctgggaagat 360
 ggctccagt atcattctac atatattgta caaacactag attttcacct gggtcataat 420
 actatggtta ccaaaccatg tgggtgcttg gaaagtccta tggcaacaat atccaagata 480
 acaaggcgtc gccatgaaaa tccaccccat ggagtagcaa gtgtgaaaga atggttcaat 540
 tatgttacag ctacaaggaa tgaagagcta aatctgcttc gtaatgttga tgctaacaac 600

actgagaata gcactactgt gaagaattct agtttngtga gtggattcag aggangttct 660
 agctacaacc atgaaacaga gactatcttt gcattaccaa ggatgcagct tgactttaaa 720
 tccattcatg ttcaagaacc acaggagcct tcattacagg atgccagcct gaagcccaaa 780
 gtagaatgta atgggtggtga cagagttcac tggccacatt tgngtgacta tggatgctga 840
 gctcatcatg gttcttcatg aattaatatc agcttatctt aaagaaaaag aaaaagcntt 900
 ttttcnct 908

<210> 3341

<211> 768

<212> DNA

<213> Homo sapiens

<400> 3341

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 agccatggca gcgctgcgct acgcggggct ggacgacacg gacagtgagg acgagctgcc 180
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 aatgaccctg gacctngctc tgnttccgta gcgtgcagca ttttgcttga agcctttcaa 720
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<210> 3342

<211> 810

<212> DNA

<213> Homo sapiens

<400> 3342

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gctccgggtg ccctgccttt acatcatcga cgccatcttc aactcctacc cggattccag 180
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gctgtggatg gcacttatcg ttctacagct aacatttggga attggatacg ttacactact 480
ccagattcat tccatctatt cacaattaat tattttggat ctcttgggtc ctgtaatagg 540
cttaatcaca gagctacat tacacatcag agagacttta ctgtttactt cttccttgat 600
tctcacatta aatacagtgt ttgtcctggc agtgaaactg aagtggtttt attattccac 660
acgatatggt tatcttttgg tgangcacat gtatcgaatt tatggattac aagttattga 720
tgaggagacac atggaagang attcgtttcc cagacatact acgaagtctt tttggctaac 780
aagaagttac aggttcangc tacaagnggt 810

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<210> 3343

<211> 756

<212> DNA

<213> Homo sapiens

<400> 3343

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tcttaaacia ggagaagtgc cagaaagccc ggaagcaagg aaggaaagt accaagcatg 60
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aagaagaaaa aagaaggggc atggctggag cagaacggga acgagaacgc agaaaaacia 180
ccaacaaaat gataacagca aagccgatgg ccagctggtc tcgagtgaag agaaggcgaa 240

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catgaatctg aaagaccttt ccaagattag ggggagaaag agaggcaaac ctggaaccca 300
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caaaacaata gctcaattga cccttgatg agaaacttgg attaattgna agtggtccgg 720
gaccggaagg gaacttntct ggtgcgaaac tttgnt 756

<210> 3344

<211> 741

<212> DNA

<213> Homo sapiens

<400> 3344

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<210> 3345

<211> 718

<212> DNA

<213> Homo sapiens

<400> 3345

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<210> 3346

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3346

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ggcggagcgc tccgaggtgg ctgctggtgg gggctcctgg gacgacaggc tgcgcaggct   180

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catctccccc aacctggggg tcgtgttctt caacgcctgc gaggccgcgt cgcggctggc 240
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<210> 3347

<211> 703

<212> DNA

<213> Homo sapiens

<400> 3347

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 tggcggcggc ggccgagcca tggcgggaga ccccttctc tgggctccct gaagtctcgg 180
 ggagccgtga cccatgggat cgttgagcag ccgggtgctg cgccagccaa gaccagccct 240
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 cgatgcggcg ggccacggat tctgttactg tgcgggcagc cacaagcgca agcggagcag 360
 cgggtccttc tgctactgtc accctgactc ggagacggac gaggatgagg aggaggggga 420
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703

<210> 3348

<211> 755

<212> DNA

<213> Homo sapiens

<400> 3348

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<210> 3349

<211> 746

<212> DNA

<213> Homo sapiens

<400> 3349

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 aggtgatccg cccgcctntg cctctcaaag tgctgggatt acaggcgtga gccaccgcgc 360
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 ctgcacata tatatcgttg gcttggcctt ccaaagcaaa gcaaaactaa actctgggtga 660
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<210> 3350

<211> 741

<212> DNA

<213> Homo sapiens

<400> 3350

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gcagctcaag cctcagtcaa accctgagat gaccatggtc ccactcaaca tctcagctgt 660
gaccatgtgg gagaattcaa gcctgagcca atcagnctaa ctgcttccan agtcctgact 720
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<210> 3351

<211> 708

<212> DNA

<213> Homo sapiens

<400> 3351

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<210> 3352

<211> 832

<212> DNA

<213> Homo sapiens

<400> 3352

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<210> 3353

<211> 831

<212> DNA

<213> Homo sapiens

<400> 3353

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<210> 3354

<211> 578

<212> DNA

<213> Homo sapiens

<400> 3354

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<210> 3355

<211> 760

<212> DNA

<213> Homo sapiens

<400> 3355

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gacaaccgct ttgacttcct cctcctcgtc tgctgcgcca tgctcatgct gatccgggag 720
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<210> 3356

<211> 824

<212> DNA

<213> Homo sapiens

<400> 3356

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aggccacgga actccagaac caggctgagt ggaaggattg gtttgtcctg cccttcctgc 420
catccccgga caccaacccc acctttgcta cctacttttc tcgacagtgg gctgacacct 480

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<210> 3357

<211> 838

<212> DNA

<213> Homo sapiens

<400> 3357

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<210> 3358

<211> 812

<212> DNA

<213> Homo sapiens

<400> 3358

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<210> 3359

<211> 878

<212> DNA

<213> Homo sapiens

<400> 3359

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<210> 3360

<211> 797

<212> DNA

<213> Homo sapiens

<400> 3360

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<210> 3361

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3361

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<210> 3362

<211> 876

<212> DNA

<213> Homo sapiens

<400> 3362

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<210> 3363

<211> 906

<212> DNA

<213> Homo sapiens

<400> 3363

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<210> 3364

<211> 729

<212> DNA

<213> Homo sapiens

<400> 3364

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<210> 3365

<211> 841

<212> DNA

<213> Homo sapiens

<400> 3365

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<210> 3366

<211> 867

<212> DNA

<213> Homo sapiens

<400> 3366

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<210> 3367

<211> 846

<212> DNA

<213> Homo sapiens

<400> 3367

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cttctcatta tttctatatt agtacaagtg aaacagcctc gaaaaaaggt catggcttgc  180
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<210> 3368

<211> 861

<212> DNA

<213> Homo sapiens

<400> 3368

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atctgagtca gcaagtgaac tgcacaaact cttgcagcca tttcttgctt gaagccaatt 780
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<210> 3369

<211> 854

<212> DNA

<213> Homo sapiens

<400> 3369

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ggatcgccga cagaactgat gtcaatatta gattgattag acccccaa attgctggtc 240
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aattgaaaaa cgaaaatcgt gtgtgtttga aaagaagaat gcacttgnat atttgnatta 780
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<210> 3370

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3370

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agaactgcag aagaaagaag aagaaatgag acaaatgttt gttatgagag tgaaggagaa  660
agaagctgaa ctttaaggagg cagagaaaga gcttcacgag aagtttgacc ttctaaagcg  720
gacacaccaa gaagaaaaga agaaagtgga agacaagaag aaggagcttg aggangangt  780
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<210> 3371

<211> 713

<212> DNA

<213> Homo sapiens

<400> 3371

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atcttttgac ctttggcttt atttgggagg gggaagggtg ataaagtttt ctgtttccct 300
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<210> 3372

<211> 902

<212> DNA

<213> Homo sapiens

<400> 3372

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cn 902

<210> 3373

<211> 862

<212> DNA

<213> Homo sapiens

<400> 3373

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tacttgacag gcatgatggg ggggtgccagg ccggggccct gcgaagggt cgagggcttt 720
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acttgggacc acgttggtng gaaaaatccc tgggtgggaa gaacccttga gccaggggag 840
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<210> 3374

<211> 749

<212> DNA

<213> Homo sapiens

<400> 3374

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ccgtgggttg acaaatcagt agatttcatt gagaaagcaa aagcctncaa tggatgtgnt 720
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<210> 3375

<211> 650

<212> DNA

<213> Homo sapiens

<400> 3375

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ctcccgtggg agaatttggt gtggaaagca taggaggccc cttccgaggt tgacaccgtg 480
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<210> 3376

<211> 707

<212> DNA

<213> Homo sapiens

<400> 3376

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<210> 3377

<211> 773

<212> DNA

<213> Homo sapiens

<400> 3377

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<210> 3378

<211> 708

<212> DNA

<213> Homo sapiens

<400> 3378

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<210> 3379

<211> 710

<212> DNA

<213> Homo sapiens

<400> 3379

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<210> 3380

<211> 758

<212> DNA

<213> Homo sapiens

<400> 3380

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<210> 3381

<211> 719

<212> DNA

<213> Homo sapiens

<400> 3381

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aaaaagagaa ctctgtctct atcacagaac atttgcaagt gataaccacg ctgcggactg 180
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<210> 3382

<211> 773

<212> DNA

<213> Homo sapiens

<400> 3382

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 tcagcagggc aacatcgcca tgacaaccgt caacttaca gttgtgtcan gtggagcctt 720
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<210> 3383

<211> 814

<212> DNA

<213> Homo sapiens

<400> 3383

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aataaccagt caaacagatt ggctgtttca cgaacagatg gcactgtgga aatttataac   180
ttgtcagcaa actactttca ggagaaattt tcccaggtc atgagtctcg ggctacagaa   240
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<210> 3384

<211> 773

<212> DNA

<213> Homo sapiens

<400> 3384

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ggcctccagc ttccagccct cctcccctaa gccgccgcca tcatgtctgt gcctgtgttc   180
accctgaaac tgcgccacaa aatcagcccc cgaatggtgg ccatagggcg ctacgacggg   240
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acacggaacc agcatgtcag tgcattcagg gtcttcaga gccccctggg atctgatgtt   360

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 gccttgcgtg actttgatgg tgatggaaaa gaaagagctt cttgntggat ctgangattt 720
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<210> 3385

<211> 754

<212> DNA

<213> Homo sapiens

<400> 3385

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<210> 3386

<211> 884

<212> DNA

<213> Homo sapiens

<400> 3386

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gcaattgttg atagtagatc agctcagccc aaagaaacct cggaagagag aaaagctcgt 180
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aaggatccac ccatgatgtt aaacccccaa tncagaaacn aggacaagtt gcttaaatta 840
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<210> 3387

<211> 817

<212> DNA

<213> Homo sapiens

<400> 3387

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 cagagagaaa taaatgagtt gaatatcttt caagactaac attttctgaa actttaagaa 720
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<210> 3388

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3388

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gcctgggcaa cccantgaga ccccgatatct acaaaaatta gccaggtgtt gtgacatgtg 780
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<210> 3389

<211> 768

<212> DNA

<213> Homo sapiens

<400> 3389

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<210> 3390

<211> 871

<212> DNA

<213> Homo sapiens

<400> 3390

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<210> 3391

<211> 890

<212> DNA

<213> Homo sapiens

<400> 3391

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ggaaaatgac atacctactg atcttgtccc tgtaaccta ctattagaag tgaagaagtt 360
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 tatgtcttta gttattttgg acgtggntta ctgcatgtg ctcaaaagag atntaatgga 780
 ggactgctag aatttcataa aagcttacag gaaattggag acaaaaatga ccattgggtg 840
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<210> 3392

<211> 723

<212> DNA

<213> Homo sapiens

<400> 3392

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gaa

723

<210> 3393

<211> 807

<212> DNA

<213> Homo sapiens

<400> 3393

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<210> 3394

<211> 778

<212> DNA

<213> Homo sapiens

<400> 3394

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<210> 3395

<211> 804

<212> DNA

<213> Homo sapiens

<400> 3395

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<210> 3396

<211> 646

<212> DNA

<213> Homo sapiens

<400> 3396

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<210> 3397

<211> 802

<212> DNA

<213> Homo sapiens

<400> 3397

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gaacctgctc ttgcatcant ggtaatncat taaggagggc cctggncctt gaaccttcct   780
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<210> 3398

<211> 733

<212> DNA

<213> Homo sapiens

<400> 3398

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<211> 716

<212> DNA

<213> Homo sapiens

<400> 3399

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<210> 3400

<211> 711

<212> DNA

<213> Homo sapiens

<400> 3400

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<210> 3401

<211> 846

<212> DNA

<213> Homo sapiens

<400> 3401

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<210> 3402

<211> 857

<212> DNA

<213> Homo sapiens.

<400> 3402

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857

<210> 3403

<211> 808

<212> DNA

<213> Homo sapiens

<400> 3403

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<210> 3404

<211> 874

<212> DNA

<213> Homo sapiens

<400> 3404

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<210> 3405

<211> 887

<212> DNA

<213> Homo sapiens

<400> 3405

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 ccaaattcaa atggggagat ttatttcatt cttacaggaa ctgtcttgct ttgttacgag 180
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atttgaatt caggaagaaa cattaaagcc atttgaaaag ttcttgctga agctagaagg 480
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 gctaataatta tttgggttcc tgataatttc tgatccagaa atccacagct gccaaactgta 840
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<210> 3406

<211> 860

<212> DNA

<213> Homo sapiens

<400> 3406

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aactnctgaa attgctttgg

860

<210> 3407

<211> 895

<212> DNA

<213> Homo sapiens

<400> 3407

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tgcccttcgc tttatgaggc ggataattgg acttaaagat gaattttata atcgttacat	180
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ccaccaaggg aagtttggtt ggcttaattg gattatncag atgatgaana ggaagatgaa	840
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<210> 3408

<211> 842

<212> DNA

<213> Homo sapiens

<400> 3408

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<210> 3409

<211> 848

<212> DNA

<213> Homo sapiens

<400> 3409

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<210> 3410

<211> 902

<212> DNA

<213> Homo sapiens

<400> 3410

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<210> 3411

<211> 760

<212> DNA

<213> Homo sapiens

<400> 3411

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<210> 3412

<211> 748

<212> DNA

<213> Homo sapiens

<400> 3412

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<210> 3413

<211> 756

<212> DNA

<213> Homo sapiens

<400> 3413

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<210> 3414

<211> 779

<212> DNA

<213> Homo sapiens

<400> 3414

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<210> 3415

<211> 863

<212> DNA

<213> Homo sapiens

<400> 3415

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<210> 3416

<211> 884

<212> DNA

<213> Homo sapiens

<400> 3416

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gaaaaaatag aggatgcttt attatgggaa tgcccagtgg gagatatact tcccaattca 300
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<210> 3417

<211> 906

<212> DNA

<213> Homo sapiens

<400> 3417

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<210> 3418

<211> 795

<212> DNA

<213> Homo sapiens

<400> 3418

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<210> 3419

<211> 807

<212> DNA

<213> Homo sapiens

<400> 3419

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<210> 3420

<211> 817

<212> DNA

<213> Homo sapiens

<400> 3420

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<210> 3421

<211> 802

<212> DNA

<213> Homo sapiens

<400> 3421

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gcttgttcgg gtggccccct tn 802

<210> 3422

<211> 726

<212> DNA

<213> Homo sapiens

<400> 3422

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angagt 726

<210> 3423

<211> 779

<212> DNA

<213> Homo sapiens

<400> 3423

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<210> 3424

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3424

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<210> 3425

<211> 906

<212> DNA

<213> Homo sapiens

<400> 3425

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<210> 3426

<211> 884

<212> DNA

<213> Homo sapiens

<400> 3426

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<210> 3427

<211> 697

<212> DNA

<213> Homo sapiens

<400> 3427

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<210> 3428

<211> 898

<212> DNA

<213> Homo sapiens

<400> 3428

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<210> 3429

<211> 769

<212> DNA

<213> Homo sapiens

<400> 3429

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 agtataagag agaaatagaa gagcaacttn gggcagaaat gtgtcaaaag ttgaagtttt 720
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<210> 3430

<211> 911

<212> DNA

<213> Homo sapiens

<400> 3430

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<210> 3431

<211> 889

<212> DNA

<213> Homo sapiens

<400> 3431

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<210> 3432

<211> 818

<212> DNA

<213> Homo sapiens

<400> 3432

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<210> 3433

<211> 808

<212> DNA

<213> Homo sapiens

<400> 3433

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<210> 3434

<211> 832

<212> DNA

<213> Homo sapiens

<400> 3434

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<210> 3435

<211> 848

<212> DNA

<213> Homo sapiens

<400> 3435

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<210> 3436

<211> 880

<212> DNA

<213> Homo sapiens

<400> 3436

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<210> 3437

<211> 775

<212> DNA

<213> Homo sapiens

<400> 3437

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attccgtcgg acagaggttc ctncattgct ctttatttta gatcgctgtg atgatgccat 720
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<210> 3438

<211> 831

<212> DNA

<213> Homo sapiens

<400> 3438